Smart Data System

MH0501PM21 09-2016

- Personal Behavior Management
- Energy and Efficiency Management
- Safety and Equipment Resource Management
- From Programme Platform to Management Solution
- MH Know-how + Intellectual Property and Professionals
- Machinery, Automation and IT Integrated System All in One Platform On-line and Off-line Service



Tailor - made MHCIMS of Your Own MH Provides Value-added Service





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Please Pay Attention to MH Official We-chat

Crane Safety Monitoring and Information Management System

Created by Our Hearts





Crane Safety Monitoring and Information Management System



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Crane Safety Monitoring and Information Management System



Crane Safety Monitoring

Superior Safety Monitoring beyond National Standard

Based on Chinese National Standard GB/T 28264-2012, MHCIMS aims at solving the actual safety problem of crane operating, and designed for comprehensive and reliable crane safety monitoring and management. In our mind, crane safety monitoring is not just logging and displaying crane's faults, but it needs more pertinent data mining, analyzing and to have preventive maintenance.

- 100% equipments safety data monitoring via short scan time and high speed equipment data display.
- Synchronized data storage with data acquisition and accurate historical curve trends reviewing, can realize 100% incident tracking and responsibility clarification.
- Excellent alarm system and fault diagnosis help the customers to process the 100% electrical faults rapidly.

Crane General Information Management

Saving the Crane Management Cost by at Least 20%.

To resolve the customers' problems during equipment management and maintenance, we have designed 3 major management functions: Crane Health Management, Crane Efficiency Management, and Crane Equipment Maintenance Management, for solving 3 kernel problems in crane managing: crane life-span and preventive maintenance judgment, efficiency in crane operating work and optimizing crane maintenance work. Furthermore, we can also integrate the production management with crane operation into this system. Through the 3 functions, MHCIMS helps the managers to enhance the crane management level and efficiency, and to gain effectiveness in time and money.

- Equipment life expectancy and equipment preventive maintenance reminder help our customers enhance the maintenance efficiency at least 30%.
- Equipment Health Management analyzes the actual situation on equipment running and equipment healthy status, which can help our customers optimize equipment operation and equipment management to save equipment cost at least 20% in most cases.
- Multiple networked MHCIMS is the solution to remote comprehensive and centerized monitoring and management, which can reduce at least 30% personal workload in most cases.
- Real scene management by 3D (Customized)

MHCIMS not only meets the basic customer requirements, but it is also a smart system that is oriented to the future equipment resource management era. MHCIMS is widely used in overall management of cranes from site to decision-making levels within an organization. Features such as monitoring protection of heavy duty cranes, equipment management, fault diagnosis, tracking, tracing and data logging, management reporting and analysis of system data for each type of overhead traveling crane including gantry cranes (harbor cranes), portal cranes, tower cranes, cable cranes, mast cranes, mobile cranes, and even heavy-duty cranes such as

1 overhead cranes, shipbuilding cranes and heavy duty harbor cranes.

Informatization Solution Specially Made for Cranes

Comprehensive and Professional Safety Monitoring Management

MH Company has been committed to delivering a solution for crane safety, protection and equipment management. Based on the deep understanding with Chinese National Standard GB/T 28264-2012 and long-age experience on crane controlling domain, we designed very powerful safety monitoring functions for crane users. From one device or component to multiple cranes, from equipment to human operating, MHCIMS can achieve comprehensive safety monitoring and management via full real-time monitoring of crane safety data and operation with highly effectible fault tracing and data analysis functions.

Flexible Network Support

MHCIMS meets all the operations and management requirements for a wide range of business sizes. From a single crane installation to an operation having multiple cranes the functions of monitoring, maintenance and management can be realized through the built-in networking capability of the MHCIMS product.

Real-time Online Monitoring and High Speed Data Collection

MHCIMS can continuously collect and record data at 100 ms sampling cycle. Giving near real-time feedback on equipment status which the national standards requirement, which makes MHCIMS the leading monitoring software available. With this resolution of data MHCIMS provides guaranteed reliable data for accurately analyzing equipment faults.

Stability and Reliability

MHCIMS runs on tested hardware platforms. We have been committed to enhancing the capability of vibration proof, dust proof, high temperature resistance and minimizing communication issues common in crane applications. As to the above the MH Company uses professional, technical development and design teams, and has strict quality control systems for the selection and testing of all components making up the system. This ensures that MHCIMS continues collecting and monitoring 24 hours a day, 365 days a year giving our customers peace of mind.

Extendable Interface

MHCIMS uses the industry standard OPC interface for communicating to real time systems. As such it can be extended into customers own test and management systems. It can interact with other online monitoring systems such as MES, ERP and MIS management systems, vibration and pressure test systems. Let MHCIMS become your helpful assistant and powerful tool box.

Comprehensive Management Support

MHCIMS integrates simple and convenient management modules. MHCIMS provides you comprehensive solution support with component repair and replacement, spare parts plan, safe operation guides, operators' identification and equipment management policy and procedure system.

Equipment Resource Management

Based on the real-time data of equipments, MHCIMS support a series of management functions such as Efficiency Management, Crane Health Management, and Item Check Management etc. These functions can help crane users optimize crane operation, save the cost of energy, manage maintenance work and spare parts. As a result you can save resources, reduce conception of spares consume, and improve the management of efficiency.

Data Analysis

MHCIMS brings a new dimension to crane safety and operations management. Ordinary systems merely monitor and log equipment data. However, MHCIMS has developed a highly efficient data base backend and provides crane data analysis. Reports and analysis include crane workload statistics, component lifecycle statistics and working efficiency statistics.

Powerful fault Resolution

MHCIMS has a powerful fault resolution ability that comes with years of crane and technical maintenance experience. It can guickly locate faults and propose fault handling and resolution against best practice suggestions. It also provides unique professional fault analysis when used with MH Company's specialist crane drive equipment.

Reliable Security Management

MHCIMS offers comprehensive safety verification mechanisms and operations and thus provides reliable and secure safety management capability to your operations

Remote Monitoring and Data Analysis

The MHCIMS solution is WEB enabled allowing operators and technical personnel to directly access data and query any cranes working status in real-time. As the standard's requirement, MH Company builds up a remote monitoring and analysis center. Customers can logon on this center to get professional data evaluation and crane maintenance advice by this platform.

International Standard Software Platform

MHCIMS is kept on-going development through MH-SCADA, which is a software tool platform synchronized with international standard. For more information, please refer to www.mh-scada.com.

MHCIMS includes hardware and software programs of the Monitoring Layer, Management Layer and Decision-making Layer. MH Company can also provide software and hardware integration and customization services for Equipment Laver, Control Layer and Data Collecting Layer according to customers' demands and the real situation of the equipment on a site. MHCIMS supports Multi-language which means it is possible to ship the product in any major foreign language.



MHCIMS System Architecture

Profile of Function

Profile of Function

To meet various requirements by customers and for different cranes, the following monitoring devices and solutions are optional for you!

	Crane	Safety Monitoring	System		Crar Manage	ne Safety Monit ment System (I	oring and Information ndividual Crane Solution)		Crane Safety	Monitoring and Information Management System (Network Solution)
In	ndividual Crane	MHCIMS-Econo	M	IHCIMS-Basic	мнсім	S-Standard	MHCIMS-Ultimate	Net	twork Solution	MHCIMS-Customized (On Customer's Request)
Monitoring	Real-time Status	Safety monitoring in accord with GB/T 28264-2012 Limited numbers of I/Os	Safety i with GE Read d commu	monitoring in acc 3/T 28264-2012. ata from field-bus nication.	Full crane	surveillance.		Monitoring	Real-time Status	s Tailor-made system for groups of cranes management.
Safety I	Historical Curve	Historical data form Historical data can	is. be expoi	rted to USB stora	ge Full of info Customer Query rest	ormation. Curve self-defined que ult can be expor	query is millisecond-scaled. ry is accepted. ted or printed out.	Safety I	Historical Curve	Full of information. Curve query is millisecond-scaled. Customer self-defined query is accepted. Query result can be exported or printed out.
	Alarm Query	Arranged in chorolo	ogical or	der.	Combined	query with mult	iple condition query.		Alarm Query	Combined query with multiple condition query.
	Equipment Information	-		-	Data of ac calculated Data base Intelligent replaceme	tual working life out. I is logged auton early warning a ent is provided.	span of equipment are natically. nd promptings of		Equipment Information	Data of actual working lifespan of equipment is calculated out. Data base is logged automatically. Intelligent early warning and promptings of replacement is provided.
	System				Customer	security manage	ement. Self-check of system		System	Customer security management. Self-check of system
	Efficiency Management	-			It is extens Functional found in E MHCIMS.	n. File operation sible. lity can be xpert Type of	Crane operating efficiency analysis. Crane stop time analysis. Crane energy cost analysis.		Efficiency Management	Multiple cranes management. Crane operating efficiency analysis. Crane down time analysis. Crane energy cost analysis.
Management	Crane Health Management	-			It is extens Functional found in E MHCIMS.	sible. lity can be xpert Type of	Crane running status analysis. Crane alarm statistical analysis Crane life-span analysis.	Management	Crane Health Management	Multiple cranes management. Crane running status analysis. Crane alarm statistical analysis. Crane life-span analysis.
Information	ltem Check Management	-		-	It is extens Functional found in E MHCIMS.	sible. lity can be xpert Type of	Equipment lifespan management. Files or materials of crane centralized management. Planning making and logging management. Automatic prompting and implementation recording. Implement situation statistics and data policy.	Information	ltem Check Management	Equipment lifespan management. Files or materials of crane centralized management. Plan - making and logging management. Automatic prompting and implementation recording. Implement situation statistics and data policy.
	Mechanical Diagnosis	-			It is extens installed.	sible. Mechanica	al detecting sensor should be		Production Management	Crane running command is uploaded. Crane working command is confirmed. Crane production and working information is logged into data base. It can be connected to enterprise production management system.
s	Remote Monitoring	It is extensible.	s need		It is	extensible. Inter	net connection is need.		Remote	Internet connection is need.
Other Functior	Crane Hoist Load Limiter	It is extensible. Car MHCIMS Can repla	n output o	display and prote ing-capacity Limi	ction data. Input ter instrumentati	is 4 ~ 20mA and on.	alog signal.	unctions	Message Alarm	It needs SMS service.
N	Main Supporting Hardware	Crane Safety Monit	or f I/Os.)	Crane Safety M	onitor	Crane Mainter (Electric Hard	ance Station disk)	Other f	Client Service	Parallel query is supported
Dat	ta Sampling Cycle	100ms	- /	100	ms	<100ms	<100ms	Ľ	WEB Page Issue	e It can be accessed by explorer. It is not required to install software.
Da	ta Logging Cycle	300ms		300	ms	<100ms	<100ms	М	ain Supporting	Ground data center.
S	ystem Extended Interface	It can be connected Monitoring Center (to netw Internet	ork to make netw connection need	ork solution. Ca ed).	n upload data to	MH Crane Remote		Hardware	Wireless communication station.
S	System Upgrade Capability	Overall Upgrade of	Product	ion.	Modulated Exte	ended Upgrade.		Sy	stem Upgrade Capability	It is only required to upgrade server.
<u> </u>	Video System	Optional. Video terr	ninal.		Optional. Synth	etic video syste	m <u>.</u>		/ideo System	Optional, Video server management/big screen display.
Dev	elopment Software	Others		Others	MH-S0	CADA	MH-SCADA		Development Software	MH-SCADA

Notes:

- ①: All-in-one computer of industrial grade can also be supplied according to customers' requirement.
- 2: System sampling cycle should be less than 100 ms according to GB/T 28264-2012, "Safety Monitoring Management System of Crane Applications".
- 3: Designated development software can also be adopted for design according to customers' requirement. However, performance of design is possibly different.
- (4): MH has obtained Hoist Load Limiter Supervise Type Test Certification (No.TX 4000-16-15-0713)



Functionalities

MHCIMS-Economic system has functions of real-time status, historical log and alarm management.

Real-time Status

- Detailed real-time status is displayed separately. •
- The main loop and control loop are displayed separately. •
- Single line chart shows working status of crane and equipment. •
- · Control logic is displayed with easy to understand diagrams.

Historical Trend Curves

- Historical data can be read in chart.
- Data sampling cycle is 100ms. Data logging cycle is 300ms.
- Historical data is saved in CSV files and it can be exported for analysis. •

Alarm Monitor

- Latest alarm information is displayed.
- Alarm is designed according to actual control logic.
- Maximum alarm logging items can be up to 100,000. And alarm information can be monitored.
- Meet basic national standard alarm data log and inquiry qualification.

MHCIMS-Economic Type



System Characteristics

- An economically priced equipment-oriented monitoring platform that is focused on the needs of the crane industry.
- Main supporting hardware is MH Crane Safety Monitor which is very convenient to install and maintain.
- Software function is concise and visual. Working platform is fully tested and stable.
- It is designed to be used on the majority of small ton or light duty cranes by traditional control.
- Meet basic national standard monitoring qualification.





1	2012-09-26 15:36:47	下菁将成已列达根带袋,请注意!	
2	2012-09-26 15:36:47	网络古网络相用曲,诸道盘?	
3	2012-09-26 15:36:47	集成已始於根果森、通道森?	
4	2012-09-26 15:36:47	这位行程已刻达根用值,通证盒!	
5	2012-09-26 15:36:47	起升高度已到达根带着,请往意!	
6	2012-09-26 15:36:47	起某力矩己列达表用值,请注意!	
			_
			-
_			

Equipment List

MHCIMS-Economic Crane Information Management Software V2.0: MHCIMS-E2.0-□□□□□ → (Project Number is five-digit number provided by MH company.)

Crane infor	mation	manag	ement syster	m software	V2.0:	MHCIMS-SW2.0-E-0000-00-	→(Sof	tware Serial Num	ber: Two-digit numbe	er is provided by MH	
company)							+ Pro	oject Number			
Softwa	ire Moo	lule		Туре				Information for (Order		
Hoist Lo	oad Lin	niter	CIMS	S-MHRI-20	000 M	I his is o	optior	nal and to replace r ^{≈1}	Hoist Load Limiter.		
_	Ν	lain		_	IVIO	Shitoning Layer . Grane Galety In		ommunication		Working	
Туре	Com	ponents	Perform	ance Parar	meters	Dimension/Installation Styles		Modes	Protection Grades	Temperature	
MHSM-1-	To So	ouch creen	Size of backlit	Screen: LED, fiel	7" TFT, Id bus	310 x 120 x 305mm W×D×H	S indu	upport multiple ustrial serial field	IP51	0~45 ℃	
2203(0)	USB De	Storage evice	collection.			Electric Cabinet Installation	bue	protocol.	protocol.		
						Control Layer: PLC ^{#1}	1				
Equipme	ent		6ES7 214-1	AD23-0XB	8	CPU Module		PPI Na	field bus communica tive 14DI/10DO 24V	tion, DC.	
PLC (S7-2	.00)		6ES7 221-1	BH22-0XA	8	Digital input module		Max 16 sw	imum expand 7 modi itch-mode inputs, 24	ules. V DC.	
			6ES7 231-0	HC22-0XA	8	Analogue input module			4 analogue inputs.		
			E	quipment L	ayer: Fur	ictional switches, sensors and ar	nalog	ue signal transmi	tters.		
Equipme	ent	Des	scription			Туре			Output		
		MH-	-HWL-A-I			Single hook					
Hoist Loa	ad	MH-H	IWL-A+B-I			Double hooks					
Limiter		MH-HV	NL-A+B+C- I			Three hooks		Analogu	ue output, 4~20mA cu	urrent signals	
-	.,	М	IH-LX-I			Digital display					
Torque Lin	niter	MH	-LX-I-TP		То	uch screen display					
					Drum ef	fective work coils: 0~40					
		MF	H-GX-A		1: 6/8/12/15/25/30/40						
Rotation Lir	miter	Mł	H-GX-B		Drum ef	fective work coils: 0~80; 1: 50/70/80		Switch mode output	uts		
		Mł	H-GX-C		Drum eff	ective work coils: 0~160 100/120/160					
		М	H-DXZ		Mu	ultifunctional limiter.					
Stroke Lin	nitor	N	/H-XC		2 con	trol loops, water proof.			Switch mode outpu	ute	
OUDKE LIII	litter	M	H-XC-J			1 control loops			Switch mode outpo	113	
Over Spe Protectio	ed on	0	SP-2/4		2Sen	sors or 4sensors type			Switch mode outpu	uts	
Device		С	OSP-D			Multifunction					
		FZ	ZBJ-2-J	Unidir	rectional.	. Sensors and control module are integrated.					
Anti- collis	sion	FZ	BJ-2-J1		Uni	Unidirectional, split type Bidirectional, split type		Switch mode outputs			
Device		FZ	BJ-2-J2		Bid						
		FZ	BJ-3-L1		Uni	directional, split type		Switch mode and analogue output, 4~20mA current			
		FZ	BJ-3-L2		Bid	lirectional, split type		information.			
		M	1H-WS			Anemoscope	Analogue outputs, 4~20mA current information				
Anemosco	ope	мн	WS-D-I		M	/ind speed sensor		Analog	que outputs voltage i	nformation	
		M	MH-XC			Contact-type		741210(,		
Hoist Bra	ike	IV N	14.GD		r	Photoelectric-type			Switch output		
Absolut	e	M	HEC-J		r	Adjustable.		Analogu	e outputs, 4~20mA c	urrent signal.	
Curren	t	м	CT-0.66		Curr	ent range selectable.		Sec	condary current output	its: 0~5A	
Transform	ner	AST	V0C6-01		6 0~5A ci	urrent signal transmission.					
Analogue S	Signal	AST	V6C0-01	6	0~2000V	voltage signal transmission					
Transmit	ter	AST	V3C3-01	3 0~5A ci	urrent sigr	nal transmission; 3 0~2000V volt	age	Multiple and	Multiple analogue inputs, 4~20mA current signal.		
					SI	gnai transmission.				_	
E and	mart		Decard	ion		Vidéo System			Doromot		
Equip	ment		Descript			i ype		4001	Parameters	anuto.	
		-	MH-2DE7	174-A		Spherical camera		1320	v pixel, 960P, audio in	iputs.	
Can	nera		MH-2DE71	72-A-J		Spherical camera			132W pixel, 960P		
			MH-2CD22	12D-I3		Gun type camera			130W pixel, 960P		
			MH-2CD120	3D-13-J		Gun type camera			100W pixel, 720P		
Harddisk	Record	der	MH-SN	IH				8 in	put, support 2 hard d	isks	
Brida	ie/AP	1	MH-A	ρГ			1		2.4GHz、300Mbps		



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- Historical data is saved in CSV files and it can be exported for analysis.

Alarm Monitor

- Latest alarm information is displayed. •
- Alarm is designed according to actual control logic. •
- Maximum alarm logging items can be up to 100,000. And alarm information • can be monitored.
- Meet basic national standard alarm data log and inquiry qualification.

*Customers can customize suitable hardware based on their requirements.

MHCIMS- Basic Type

System Characteristics

- An economically priced equipment-oriented monitoring platform that is focused on the needs of the crane industry.
- Main supporting hardware is MH Crane Safety Monitor which is very convenient to install and maintain.
- Software function is concise and visual. Working platform is fully tested and stable.
- For all crane safety monitoring.
- Meet basic national standard monitoring qualification.



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R X	ATT ALL	が説の直	实时运行	状态曲线画	面1		
化表数器	0	+		0			
实时曲线	0			0			
	0			0			
RAINE	0 47:52 47:57	48:02	48:07 48:12	0 47:52 47:57	48:02	48:07	48:12
R\$42	•			•			
	0		\sim	•			
		\vdash					
112-00-11 15:48:12	47:52 47:57 起重力矩	48:02	48:07 48:12 起升高度 下降	47:52 47:57	48:02	48:07	48:12

	开始时间	结束时间	信息
	2012-09-26 15:36:47		下解病皮已到达都是备,请往点!
	2012-09-26 15:36:47		网络名别达相用曲,通道盘*
	2012-09-26 15:36:47		新庆己的达利用意,讲证意 *
4	2012-09-26 15:36:47		运行行程已到达根厚值,请证盒!
	2012-09-26 15:36:47		起升高度已到达都带着,请往意?
6	2012-09-25 15:36:47		起重力矩己列达根厚值,请往盘!

MHCIMS - Basic Type

Equipment List

MHCIMS-Basic Crane Information Management Software V2.0: MHCIMS-B2.0- $\Box\Box\Box\Box\Box \rightarrow$ (Project Number is five-digit number provided by MH company.)

Crane information managem	ient system software V2.0:	MHCIMS-SW2.0-S-0000-00	→(Software Serial Number: t	wo-digit number is j	provided by I	AH Company)
Software	Module	Type	Project senar number	Information for Orde	ar	
Hoist Load	d Limiter	CIMS-MHRT-2000	This is optiona	al and to replace Ho	ist Load Limi	ter
		Monitoring Layer Crane S	afety monitor ^{**1}			
Туре	Main Components	Performance Parameters	Dimension/Installation Styles	Communication Modes	Protection Grades	Working Temperature
MHSM-1/1-220PG	Touch Screen USB Storage Device	Size of Screen: 10.4" field bus collection.	310 x 120 x 305mm W×D×H Electric Cabinet Installation	Ethernet/ RS232/485 Support multiple industrial serial field bus communication protocol.	IP51	0~50°C
Equipment	Description	Control Layer: PLC or MH Signa		1	Interface	
Lqupment	MSLC-MU-8-220PM	CPU module, coul	d be main station.	Profibus-DP field I	bus commun nain station.	ication. It can be
Signal Logic Controller	MSLC-MU-8-220PZ	DP slave station module	e. For interface expend.	Profibus-DP field a	bus commun slave station	ication. It can be
	MSLC-IN-16-220	Digital inpu	ut module	16 Switch-n	node inputs,	220V AC
	MSLC-SI-10/0	Analogue in	out module	10 analog	ue inputs, 4	I~20mA
	MH-VIPA 214-2BM02	CPU m	nodule	Profibus-DP field I main station.	bus commun	ication. It can be
	MH-VIPA 253-1DP01	DP slave sta	tion module	Profibus-DP field a slave station.	bus commun	ication. It can be
PLC	MH-VIPA 221-1BH10	Digital inpu	16 Switch-mode inputs, 24V DC			
	MH-VIPA 231-1BD30	Analogue input mo	dule (Voltage type)	4 vol	tage input, ±	10V
	MH-VIPA 231-1BD40	Analogue input mo	dule (Current type)	4 circ	uit input, ±20)mA
	Equipment Laye	er: Functional switches, sensor	s and analogue signal transm	itters ^{≋1}		
Equipment	Description	Ту	De		Output	
	MH-HWL-A-I	Single	hook	Analogue outpu	ut, 4~20mA c	urrent signals.
	MH-HWL-A-DP	Single	hook	DP field bus outputs		
Hoist Load Limiter	MH-HWL-A+B-I	Double	hooks	Analogue output, 4~20mA current signals.		
	MH-HWL-A+B-DP	Double	hooks	DP field bus output		
	MH-HWL-A+B+C-I	Three	hooks	Analogue outp	outs, 4~20mA	current signals.
	MH-HWL-A+B+C-DP	Three	hooks	DP	field bus outp	out
	MH-LX-I	Digital	display	Analogue outp	outs, 4~20mA	current signals.
Torque Limiter	MH-LX-I-TP	Touch scre	en display	DP	field bus outp	out
			uspidy	Anaiogue outp	iuis, 4~20mA	current signals.
		Drum effective work coils: 0	~40.1.6/8/12/15/25/30/40	DP	witch output	JUL
	MH-GX-R	Drum effective work co	ils: 0~80 1: 50/70/80	8	witch output	
Rotation Limiter	MH-GX-C	Drum effective work coils:	0~160; 1: 100/120/160		witch output	
	MH-DXZ	Multifunctio	nal limiter.		witch output	
	MH-XC	2 control loops	s, water proof	s	witch output	
Stroke Limiter	MH-XC-J	1 contro	l loops	s	witch output	
Over Speed Protection	OSP-2/4	2 sensors or 4	sensors type	S	witch output	
Device	OSP-D	Multifu	nction	s	witch output	
	FZBJ-2-J	Unidirectional. Sensors and c	ontrol module are integrated.	S	witch output	
	FZBJ-2-J1	Unidirection	al, split type	s	witch output	
	FZBJ-2-J2	Bidirectiona	I, split type	s	witch output	
Anti- collision Device	FZBJ-3-L1	Unidirection	al, split type	Switch mode and	d analogue o urrent signals	utput, 4~20mA
	FZBJ-3-L2	Bidirectiona	l, split type	Switch mode and	d analogue o irrent signals	utput, 4~20mA

Anomosoono	MH-WS	Anemoscope	Analogue output, 4~20mA current signals.
Anemoscope	MHWS-D-L	Wind speed sensor	Analogue outputs, voltage signals.
Hoiat Prako	MH-XC	Contact-type	Switch output
HUISI DI AKE	MH-GD	Photoelectric-type	Switch output
Absolute Encoder	MHEC-DP	Adjustable.	DP field bus output
Absolute Encoder	MHEC-J	Adjustable.	Analogue outputs, 4~20mA current signals.
Circuit Transformer	MCT-0.66	Current range selectable	Secondary current output: 0~5A
	AST V0C6-01	6 0- 54 ourrent signals, transmission	Multiple analogue inputs, 4~20mA current
		6 0~5A current signals, transmission	signals.
Analogue Information	AST V6C0-01	6.0~2000V voltage signal transmission	Multiple analogue inputs, 4~20mA current
Transmitter		0 0 2000 Voltage signal, transmission	signals.
	AST V3C3-01	3 0~5Acurrent signalstransmission; 3 0~2000V voltage	Multiple analogue inputs, 4~20mA current
		signals transmission	signals.
		Video System ^{*1}	
Equipment	Description	Туре	Parameters
	MH-2DE7174-A	Spherical camera	132W pixel, 960P, audio inputs
Equipment	MH-2DE7172-A-J	Spherical camera	132W pixel, 960P
Equipment	MH-2CD2212D-I3	Gun type camera	132W pixel, 960P
	MH-2CD1203D-I3-J	Gun type camera	100W pixel, 720P
Harddisk Recorder	MH-SNH		8 input, support 2 harddisks
Bridge/AP	MH-AP		2.4GHz、300Mbps

Customers can customize suitable hardware based on their requirements.

MHCIMS - Basic Type

MHCIMS - Standard Type



Profile of System

- Widely used and standard crane equipmentscale monitoring platform.
- Embedded hardware design is adopted. Severe circumstance can be endured.
- Software design is modularized. Extended functionality can be added as an option.
- The structure is flexible. Application of each type of crane can be adapted.
- · Most of crane information management and safety monitoring requirements are met.
- It can be extended to connect to crane information management network and realizes remote monitoring function and so on.

MHCIMS-Standard System is divided into five function modules: Alarm Query, Historical Curve, Real-time Status, Equipment Information and System Management.

.....

Functionalities

Real-time Status

- Overall picture of driving power, network and status.
- Driving power loop of each application, control logic and real-time curve frame.
- Logic analysis of menu-style real-time status.
- · Cranes information is displayed separately.

Alarm Querv

- Solution has a double mode of real-time alarm query and historical alarm query.
- Alarm history storage and query of Alarm Data over time.
- Combined logging query with multiple conditions is supported.
- · The results of alarm query can be exported to a CSV file.

System Management

- Management and login of customer application security is realized.
- All of related file materials can directly be queried.
- Cut copy and Past operation in a file can be implemented.
- Third-party software can be started to query file materials.
- Operation on computer, such as shutting down, rebooting can be implemented.





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- · Data collection and logging with 100 ms of sampling cycle.
- · Combined query is preset according to control
 - loaic.
 - Custom historical curve combination is supported.
 - · Curves can be exported with multiple file formats

Equipment Information Management

 Actual working lifespan of important equipment is recorded.

• Pull-down style query builder is concise and clear.

- It alarms automatically when preset equipment lifespan is reached.
- Lifespan data is automatically logged into data base after lifespan data is reset.
- · Logging of data base can be used as reference value of lifespan alarm.

Equipment List

MHCIMS-Standard Crane Information Management System: MHCIMS-S2.0-□□□□□ → (Project Number, five-digit number is provided by MH company)





11

MHCIMS - Standard Type

ioo-oo→(Sot	ftware Serial Number: two	-digi	t number is j	provided by	MH company)
Proje	ect serial number				
	Informatio	on for	Order		
dard Reconfig	uration Module of MHCIMS-st	anda	rd Crane Inform	nation Manage	ment System.
ptional. It is an	extension module of MHCIMS - st	andar	d Crane Informa	tion Managemer	nt System.
ptional. It is an red to be conne	extension module of MHCIMS-sta cted to internet.	ndard	Crane Informati	on Management	System. It is
ptional. It is an anical Sensor is	extension module of MHCIMS-sta s required to be installed.	ndard	Crane Informati	on Management	System.
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e and support a	are required.				
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hey are forme	ed by weighting and combination	on	М	anual of MH-SC	ADA.
alue of single-	-machine solution (local		or	consult MH Cor	npany.
tion: MHCIM	S-CMS ^{®1}				
meters	Dimension/Installation	Co	mmunication	Protection	Working
	Styles		modes	Grades	remperature

	Dimension/Installation	Communication	Protection	Working
meters	Styles	Modes	Grades	Temperature
6GHz				
edded	550 x 220 x 1600mm	Ethornot/		
SSD	W×D×H	Depagadap	IP21	0~50°C
ouch	Electric Cabinet Installation	R3232/405		
nitor				
6GHz				
edded	550 x 220 x 1600mm	Ethorpot/		
SSD	W×D×H	DS222/495	IP21	0~50°C
Fouch	Electric Cabinet Installation	13232/403		
nitor				
6GHz				
edded	490 x 140 x 600mm	Ethernet/		
SSD	W×D×H	DS222/495	IP54	0~50°C
Fouch	Electric Cabinet Installation	13232/403		
nitor				
6GHz				
edded	490 x 140 x 600mm	Ethernet/		
SSD	W×D×H	RS232/485	IP54	0~50°C
Fouch	Electric Cabinet Installation	10202/400		
nitor				

MHCIMS - Standard Type

		Cont	rol Layer: PLC or MH Signal Logis	tic cont	troller ⁼¹		
Equipment	Description		Туре		Interface		
	MSLC-MU-8-220PM		CPU module, could be main station		Profibus-DP field bus communication. It can be main station.		
	MSLC-MU-8-220PZ	DP sl	ave station module. For interface exp	pend.	Profibus-DP field bus communication. It can be a slave station.		
Signal Logic Controll	MSLC-IN-16-220		Digital input module		16 Switch-mode inputs, 220V AC		
	MSLC-SI-10/0		Digital input module		10 analogue inputs, 4~20mA		
	MH-VIPA 214-2BE03		CPU module		Integrated Ethernet-CP243 interface, S7 TCP communication		
	MH-VIPA 208-1DP01		DP main station module		Profibus-DP field bus communication. It can be main station .		
	MH-VIPA 253-1DP01		DP slave station module		Profibus-DP field bus communication. It can be a slave station.		
PLC	MH-VIPA 221-1BH10		Digital input module		16 Switch-mode inputs, 24V DC		
	MH-VIPA 231-1BD30	A	nalogue input module (Voltage type)		4 voltage input, ±10V		
	MH-VIPA 231-1BD40	A	nalogue input module (Current type)		4 current input, ±20mA		
	Equipme	nt Layer: F	unctional switches, sensors and a	analogu	esignal transmitters ^{≊1}		
Equipment	Description		Туре		Output		
	MH-HWL-A-I		Single hook		Analogue output, 4~20mA current signals		
	MH-HWL-A-DP		Single hook		DP bus output		
	MH-HWL-A+B-I		Double hooks		Analogue output, 4~20mA current signals		
Hoist Load Limiter	MH-HWL-A+B-DP		Double hooks		DP bus output		
	MH-HWL-A+B+C-I		Three hooks		Analogue output, 4~20mA current signals		
	MH-HWL-A+B+C-DP		Three hooks		DP bus output		
	MH-LX-I		Digital display		Analogue output. 4~20mA current signals		
	MH-I X-I-TP		Touch screen display		DP bus output		
Torque Limiter			Digital display		Analoguo autout 4-20mA aurrent signale		
			Tauch sereen dieplay		DD hus subut		
	MH-GX-A	Drun	n effective work coils: 0~40		DP bus output		
			1: 6/8/12/15/25/30/40		Switch mode outpus		
Rotation Limiter	MH-GX-B	Drum e	ffective work coils: 0~80: 1: 50/70/80		Switch mode outpus		
	MH-GX-C	Drum ef	fective work coils: 0~160: 1: 100/120/160		Switch mode outpus		
	MH-DXZ		Multifunctional limiter		Switch mode outpus		
	MH-XC	2	control loops, water proof		Switch mode outpus		
Stroke Limiter	MH-XC-J		1 control loops		Switch mode outpus		
	OSP-2/4	2	sensors or 4 sensors type		Switch mode outpus		
Protection Device	OSP-D		Multifunction		Switch mode outpus		
	FZBJ-2-J	Unidire	ctional. Sensors and control				
			module are integrated		Switch mode outpus		
Anti- collision	FZBJ-2-J1	Unidirectional, split type			Switch mode outpus		
Device	FZBJ-2-J2		Bidirectional, split type		Switch mode outpus		
	FZBJ-3-L1	ı	Inidirectional, split type		Switch and analogue output,4~20mA current signals		
	FZBJ-3-L2		Bidirectional, split type		Switch and analogue output,4~20mA current signals		
A	MH-WS		Anemoscope		Analogue output, 4~20mA current signals		
Anemoscope	MHWS-D-L		Wind speed sensor		Analogue output s, voltage signals		
	MH-XC		Contact-type		Switch mode outpus		
Hoist Brake	MH-GD		Photoelectric-type		Switch mode outpus		
	MHEC-DP		Adjustable		DP bus output		
Absolute Encoder	MHEC-J		Adjustable		Analogue output, 4~20mA current signals		
Current Transformer	MCT-0.66	(Current range selectable		Secondary current outpits:0~5A		
	AST V0C6-01	6 0~5/	A current signals transmission		Multiple analogue inputs, 4~20mA current signals		
	AST V6C0-01	6 0~200	0V voltage signals transmission		Multiple analogue inputs, 4~20mA current signals		
Analogue Information Transmitter	AST V3C3-01	30~54	current signals transmission: 3				
		0~200	0V voltage signals transmission		Multiple analogue inputs, 4~20mA current signals		
			Video System ^{#1}				
Equipment	Description		Туре		Parameters		
	MH-2DE7174-A		Spherical camera		132W pixel, 960P, audio inputs		
Camera	MH-2DE7172-A-J		Spherical camera		132W pixel, 960P		
	MH-2CD2212D-I3		Gun type camera		130W pixel, 960P		
	MH-2CD1203D-I3-J		Gun type camera		100W pixel, 720P		
Harddisk Recorder	MH-SNH		—		8 input, support 2 harddisks		
					2.4GHz, 300Mbps		



Functionalities

It has the full range of MHCIMS- Economic Information Management System and it offers as additional professional diagnosis, alarm statistical analysis, item check management functions, and so on.



----REA TRACK 20-1 25858





Expert Analysis

- · Fault Information is analyzed in real-time.
- · Fault causes are automatically analyzed with control principles.
- · Fault investigation and solutions are automatically provided.
- It has equipment faults self-learning function.
- It helps maintenance personnel to eliminate faults as soon as possible.

Health Management

- Crane operation information is automatically audited statistically.
- · Alarm system general trend is analyzed and displayed.
- · Alarm types and distribution are calculated statistically.
- · Crane operation status is analyzed.
- To analyze the crane operation.
- To analyze the lifespan of crane components.
- Detailed analysis reports are generated automatically.
- Graphical comparison analysis is generated automatically.

Efficiency Management

- Automatic calculation of crane running efficiency.
- · Reason and time of crane downtime are analyzed.
- Crane general efficiency is analyzed.
- · Detailed analysis reports are generated automatically.
- Analysis in graphical comparison.

Item Check Management

- Centralized management of basic system information, materials and files.
- Comprehensive analysis of crane parts and components. •
- Item check, maintenance, customizing on maintenance plan and record management. ٠
- Automatic prompting of plan and implementations situation records.
- Item check, maintenance and maintenance information is logged for convenient and fast auditing.
- Planned implementing strategy, helping Top Layer data decision policy.

MHCIMS-Ultimate Type

Profile of System

- It has multiple functions. It is a comprehensive and high efficient crane equipment-scaled monitoring platform. Embedded hardware design is adopted. Severe environments can be endured. Software design is modularized. It has maximized software functionality.
- It is appropriate for application of heavy duty cranes with high demands on working safety.
- Optimized crane information processing and equipment management and control requirements are realized.
- It is upgraded form MHCIMS- Economic MHCIMS. It can be extended to connect to crane information management network and implement remote monitoring and control functions, and so on.

- To display the development trend of crane operation in different cycle.

MHCIMS-Ultimate Type

Equipment List MHCIMS-Ultimate Crane Information Management System: MHCIMS-U2.0-□□□□□ → (Project Number, five-digit number is

provided by MH Company)

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Mechanical Diagnosis CIMS-MHRT-1400 It is optional. It is an extension module of MHCIMS- Ultrate Crane Information Manageme System. Mechanical System SMS service is indicated to existable. Power Efficiency Management CIMS-MHRT-1001 It is optional. It is an extension module of MHCIMS- Ultrate Crane Information Manageme System. 3MS service and support are required. Message Alarm CIMS-MHRT-1000 It is optional. It is an extension module of MHCIMS- Ultrate Crane Information Manageme System. 3MS service and support are required. Message Alarm CIMS-MHRT-1000 It is optional. It is an extension module of MHCIMS- Ultrate Crane Information Manageme System. 3MS service and service are extension module of MHCIMS- Ultrate Crane Information Manageme System. 3MS service and service are extension module of MHCIMS- Ultrate Crane Information Manageme System. 3MS service and service are extension module of MHCIMS- Ultrate Crane Information Manageme System. 3MS service and service are extension module of MHCIMS- Ultrate Crane Information Manageme System. 3MS service and service are extension module of MHCIMS- Ultrate Crane Information Manageme System. 3MS service and service are extension module of MHCIMS- Ultrate Crane Information Manageme System. 3MS service and service are extension module of MHCIMS- Ultrate Crane Information Manageme System. 3MS service and service are extension module of MHCIMS- Ultrate Crane Information Manageme System. 3MS service and servi	Remote	Diagnosis	CIMS-MHRT-1300	is optional. It is an extension module system. It is required to be connected	e of MHCIMS- UI I to internet.	timate Crane Inform	nation Managemer
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Keyboard/Mouse Monitor: 17" of Touch Screen Type Monitor Electric Cabinet Installation PS232/403 CIMS-CMS-B02 MHPC-B Industrial Computer MHIM-17B Industrial Monitor CPU: Intel i7 1.6GHz RAM: 4GB Embedded 490 x 140 x 600mm W×D×H Ethermet/ RS232/485 IP54 0~50°C CIMS-CMS-B02 MHIM-17B Industrial Monitor Keyboard/Mouse CPU: Intel i3 1.6GHz 490 x 140 x 600mm W×D×H Ethermet/ RS232/485 IP54 0~50°C MHPC-F Industrial Computer RAM: 4GB Embedded CPU: Intel i3 1.6GHz 490 x 140 x 600mm Ethermet/ RS232/485 IP54 0~50°C MHPC-F Industrial Computer RAM: 4GB Embedded 490 x 140 x 600mm Ethermet/ IP54 0~50°C	Oth →MH-SCADA 7 Model CIMS-CMS-A02	n Point License 50 scan points 10 scan point	Crane Maintenance St Performance Parameters CPU: Intel i7 1.6GHz RAM: 4GB Embedded Harddisk: 64GB SSD Monitor: 17" of Touch Screen Type Monitor CPU: Intel i3 1.6GHz RAM: 4GB Embedded	ation: MHCIMS-CMS ^{®1} Dimension/Installation Styles 550 x 220 x 1600mm W×D×H Electric Cabinet Installation 550 x 220 x 1600mm	Communicati Modes Ethernet/ RS232/485	on Protection Grades	Working Temperature 0~50°C
Image: CIMS-CMS-B02 MHPC-B Industrial Computer CPU: Intel i7 1.6GHz 490 x 140 x 600mm Ethernet/ IP54 0~50°C CIMS-CMS-B02 MHIM-17B Industrial Monitor Harddisk: 64GB SSD WxDxH Ethernet/ RS232/485 IP54 0~50°C CIMS-CMS-B03 MHPC-F Industrial Computer CPU: Intel i3 1.6GHz CPU: Intel i3 1.6GHz Ethernet/ RS232/485 IP54 0~50°C CIMS-CMS-B03 MHIM-17B Industrial Monitor RAM: 4GB Embedded 490 x 140 x 600mm Ethernet/ IP54 0~50°C	Oth →MH-SCADA 7 Model CIMS-CMS-A02	n Point License 50 scan points 10 scan point	Crane Maintenance St Performance Parameters CPU: Intel i7 1.6GHz RAM: 4GB Embedded Harddisk: 64GB SSD Monitor: 17" of Touch Screen Type Monitor CPU: Intel i3 1.6GHz RAM: 4GB Embedded Harddisk: 64GB SSD	ation: MHCIMS-CMS ^{®1} Dimension/Installation Styles 550 × 220 × 1600mm W×D×H Electric Cabinet Installation 550 × 220 × 1600mm W×D×H	Communicati Modes Ethernet/ RS232/485	on Protection Grades IP21	Working Temperatur 0~50°C
CIMS-CMS-B02 MHPC-B Industrial Computer RAM: 4GB Embedded 490 x 140 x 600mm Ethernet/ IP54 0~50°C CIMS-CMS-B02 MHIM-17B Industrial Monitor Keyboard/Mouse CPU: Intel i3 1.6GHz Driver's Cab Installation RS232/485 IP54 0~50°C CIMS-CMS-B03 MHPC-F Industrial Computer RAM: 4GB Embedded 490 x 140 x 600mm Ethernet/ RS232/485 IP54 0~50°C CIMS-CMS-B03 MHPC-F Industrial Computer RAM: 4GB Embedded 490 x 140 x 600mm Ethernet/ IP54 0~50°C	MH-SCADA 7 Model CIMS-CMS-A02	n Point License 50 scan points 10 scan points MHPC - B Industrial Computer MHIM- 17A Industrial Monitor Keyboard/Mouse	Crane Maintenance St Performance Parameters CPU: Intel i7 1.6GHz RAM: 4GB Embedded Harddisk: 64GB SSD Monitor: 17" of Touch Screen Type Monitor CPU: Intel i3 1.6GHz RAM: 4GB Embedded Harddisk: 64GB SSD Monitor: 17" of Touch Screen	ation: MHCIMS-CMS ^{m1} Dimension/Installation Styles 550 × 220 × 1600mm W×D×H Electric Cabinet Installation 550 × 220 × 1600mm W×D×H Electric Cabinet Installation	Communicati Modes Ethernet/ RS232/485 Ethernet/ RS232/485	In Protection Grades IP21	Working Temperatur 0~50°C
MHPC-B Industrial Computer MHIM-17B Industrial Monitor Keyboard/Mouse RAM: 4GB Embedded Harddisk: 64GB SSD Monitor: 17" of Touch Screen Type Monitor 490 x 140 x 600mm W×D×H Ethernet/ RS232/485 IP54 0~50°C CIMS-CMS-B02 MHPC-F Industrial Computer MHIM-17B Industrial Computer CPU: Intel i3 1.6GHz RAM: 4GB Embedded 490 x 140 x 600mm 490 x 140 x 600mm Ethernet/ RS232/485 IP54 0~50°C	Oth →MH-SCADA 7 Model CIMS-CMS-A02 CIMS-CMS-A03	n Point License 50 scan points 10 scan points 50 scan points 50 scan points er codes: other scan points MHPC - B Industrial Computer MHIM- 17A Industrial Monitor Keyboard/Mouse MHPC-F Industrial Monitor Keyboard/Mouse	Crane Maintenance St Performance Parameters CPU: Intel i7 1.6GHz RAM: 4GB Embedded Harddisk: 64GB SSD Monitor: 17" of Touch Screen Type Monitor CPU: Intel i3 1.6GHz RAM: 4GB Embedded Harddisk: 64GB SSD Monitor: 17" of Touch Screen Type Monitor	ation: MHCIMS-CMS ^{mit} Dimension/Installation Styles 550 × 220 × 1600mm W×D×H Electric Cabinet Installation 550 × 220 × 1600mm W×D×H Electric Cabinet Installation	Communicati Modes Ethernet/ RS232/485 Ethernet/ RS232/485	ion Protection Grades IP21	Working Temperature 0~50°C
CIMS-CMS-B02 MHIM-17B Industrial Monitor Keyboard/Mouse Harddisk: 64GB SSD Monitor: 17" of Touch Screen Type Monitor W×D×H Etmenter Driver's Cab Installation IP54 0~50°C CPU: Intel i3 1.6GHz CPU: Intel i3 1.6GHz RAM: 4GB Embedded 490 x 140 x 600mm Ethernet/ IP54 0~50°C CIMS-CMS-B03 MHIM-17B Industrial Monitor Harddisk: 64GB SSD W×D×H Ethernet/ IP54 0~50°C	MH-SCADA 7 Model CIMS-CMS-A02	n Point License 50 scan points 50 scan points 50 scan points 50 scan points er codes: other scan points MHPC - B Industrial Computer MHIM- 17A Industrial Monitor Keyboard/Mouse MHPC-F Industrial Monitor Keyboard/Mouse	Crane Maintenance St Performance Parameters CPU: Intel i7 1.6GHz RAM: 4GB Embedded Harddisk: 64GB SSD Monitor: 17" of Touch Screen Type Monitor CPU: Intel i3 1.6GHz RAM: 4GB Embedded Harddisk: 64GB SSD Monitor: 17" of Touch Screen Type Monitor CPU: Intel i7 1.6GHz	ation: MHCIMS-CMS ^{i≊1} Dimension/Installation Styles 550 × 220 × 1600mm W×D×H Electric Cabinet Installation W×D×H Electric Cabinet Installation	Communicati Modes Ethernet/ RS232/485 Ethernet/ RS232/485	ion Protection Grades IP21	Working Temperature 0~50°C
Keyboard/Mouse Monitor: 17" of Touch Screen Type Monitor Driver's Cab Installation KS232/485 CPU: Intel i3 1.6GHz CPU: Intel i3 1.6GHz Ethernet/ IP54 MHPC-F Industrial Computer RAM: 4GB Embedded 490 x 140 x 600mm Ethernet/ IP54 0~50°C	Oth →MH-SCADA 7 Model CIMS-CMS-A02 CIMS-CMS-A03	n Point License 50 scan points 10 scan points 50 scan points 50 scan points er codes: other scan points MHPC - B Industrial Computer MHIM- 17A Industrial Monitor Keyboard/Mouse MHPC-F Industrial Monitor Keyboard/Mouse	Crane Maintenance St Performance Parameters CPU: Intel i7 1.6GHz RAM: 4GB Embedded Harddisk: 64GB SSD Monitor: 17" of Touch Screen Type Monitor CPU: Intel i3 1.6GHz RAM: 4GB Embedded Harddisk: 64GB SSD Monitor: 17" of Touch Screen Type Monitor CPU: Intel i7 1.6GHz RAM: 4GB Embedded	ation: MHCIMS-CMS ^{#1} Dimension/Installation Styles 550 x 220 x 1600mm W×D×H Electric Cabinet Installation W×D×H Electric Cabinet Installation 490 x 140 x 600mm	Communicati Modes Ethernet/ RS232/485 Ethernet/ RS232/485	on Protection Grades IP21	Working Temperature 0~50°C
Type Monitor Type Monitor Image: CPU: Intel i3 1.6GHz Image: CPU: Intel i3 1.6GHz<	Model CIMS-CMS-A02 CIMS-CMS-A03	n Point License 50 scan points 10 scan points 50 scan points MHPC - B Industrial Computer MHIM-17A Industrial Monitor Keyboard/Mouse MHPC-B Industrial Computer MHIM-17B Industrial Monitor	Crane Maintenance St Performance Parameters CPU: Intel i7 1.6GHz RAM: 4GB Embedded Harddisk: 64GB SSD Monitor: 17" of Touch Screen Type Monitor CPU: Intel i3 1.6GHz RAM: 4GB Embedded Harddisk: 64GB SSD Monitor: 17" of Touch Screen Type Monitor CPU: Intel i7 1.6GHz RAM: 4GB Embedded Harddisk: 64GB SSD	ation: MHCIMS-CMS ^{™1} Dimension/Installation Styles 550 × 220 × 1600mm W×D×H Electric Cabinet Installation 550 × 220 × 1600mm W×D×H Electric Cabinet Installation	Communicati Modes Ethernet/ RS232/485 Ethernet/ RS232/485	on Protection Grades IP21 IP21 IP21	SCADA. Working Temperature 0~50°C 0~50°C
CPU: Intel i3 1.6GHz MHPC-F Industrial Computer RAM: 4GB Embedded 490 x 140 x 600mm CIMS-CMS-B03 MHIM-17B Industrial Monitor Harddisk: 64GB SSD W×D×H Ethernet/ IP54 0~50°C	Oth Oth MH-SCADA 7 Model CIMS-CMS-A02 CIMS-CMS-A03 CIMS-CMS-B02	n Point License 50 scan points 50 scan points 50 scan points 50 scan points 51 scan scan points 52 scan points 53 scan points 54 scan points MHPC - B Industrial Computer MHIM-17A Industrial Monitor Keyboard/Mouse MHPC-B Industrial Computer MHIM-17B Industrial Monitor Keyboard/Mouse	Crane Maintenance St Performance Parameters CPU: Intel i7 1.6GHz RAM: 4GB Embedded Harddisk: 64GB SSD Monitor: 17" of Touch Screen Type Monitor CPU: Intel i3 1.6GHz RAM: 4GB Embedded Harddisk: 64GB SSD Monitor: 17" of Touch Screen Type Monitor CPU: Intel i7 1.6GHz RAM: 4GB Embedded Harddisk: 64GB SSD Monitor: 17" of Touch Screen	ation: MHCIMS-CMS ^{®1} Dimension/Installation Styles 550 × 220 × 1600mm W×D×H Electric Cabinet Installation 550 × 220 × 1600mm W×D×H Electric Cabinet Installation 490 × 140 × 600mm W×D×H Driver's Cab Installation	Communicati Modes Ethernet/ RS232/485 Ethernet/ RS232/485	IP21 IP21 IP24	SCADA. Working Temperature 0~50°C 0~50°C
MHPC-F Industrial Computer RAM: 4GB Embedded 490 x 140 x 600mm Ethernet/ IP54 0~50°C CIMS-CMS-B03 MHIM-17B Industrial Monitor Harddisk: 64GB SSD W×D×H IP54 0~50°C	Model Model CIMS-CMS-A02 CIMS-CMS-A03 CIMS-CMS-B02	n Point License 50 scan points 50 scan points 50 scan points 50 scan points 51 scan scan points 52 scan points 53 scan points 54 scan points MHPC - B Industrial Computer MHIM- 17A Industrial Monitor Keyboard/Mouse MHPC-B Industrial Computer MHIM-17B Industrial Monitor Keyboard/Mouse	Crane Maintenance St Performance Parameters CPU: Intel i7 1.6GHz RAM: 4GB Embedded Harddisk: 64GB SSD Monitor: 17" of Touch Screen Type Monitor CPU: Intel i3 1.6GHz RAM: 4GB Embedded Harddisk: 64GB SSD Monitor: 17" of Touch Screen Type Monitor CPU: Intel i7 1.6GHz RAM: 4GB Embedded Harddisk: 64GB SSD Monitor: 17" of Touch Screen Type Monitor	ation: MHCIMS-CMS ^{®1} Dimension/Installation Styles 550 × 220 × 1600mm W×D×H Electric Cabinet Installation 550 × 220 × 1600mm W×D×H Electric Cabinet Installation 490 × 140 × 600mm W×D×H Driver's Cab Installation	Communicati Modes Ethernet/ RS232/485 Ethernet/ RS232/485 Ethernet/ RS232/485	IP21 IP21 IP24	SCADA. Working Temperatur 0~50°C 0~50°C
CIMS-CMS-B03 MHIM-17B Industrial Monitor Harddisk: 64GB SSD W×D×H Ethernet/ IP54 0~50°C	Oth →MH-SCADA 7 Model CIMS-CMS-A02 CIMS-CMS-A03 CIMS-CMS-B02	n Point License 50 scan points 50 scan points 50 scan points 50 scan points 51 scan scan points 52 scan points 53 scan points 54 scan points MHPC - B Industrial Computer MHIM- 17A Industrial Monitor Keyboard/Mouse MHPC-B Industrial Computer MHIM-17B Industrial Monitor Keyboard/Mouse	Crane Maintenance St Performance Parameters CPU: Intel i7 1.6GHz RAM: 4GB Embedded Harddisk: 64GB SSD Monitor: 17" of Touch Screen Type Monitor CPU: Intel i3 1.6GHz RAM: 4GB Embedded Harddisk: 64GB SSD Monitor: 17" of Touch Screen Type Monitor CPU: Intel i7 1.6GHz RAM: 4GB Embedded Harddisk: 64GB SSD Monitor: 17" of Touch Screen Type Monitor	ation: MHCIMS-CMS ^{™1} Dimension/Installation Styles 550 × 220 × 1600mm W×D×H Electric Cabinet Installation 550 × 220 × 1600mm W×D×H Electric Cabinet Installation 490 × 140 × 600mm W×D×H Driver's Cab Installation	Communicati Modes Ethernet/ RS232/485 Ethernet/ RS232/485 Ethernet/ RS232/485	IP21 IP21 IP21 IP24	SCADA. Working Temperature 0~50°C 0~50°C
	Oth →MH-SCADA 7 Model CIMS-CMS-A02 CIMS-CMS-A03 CIMS-CMS-B02	n Point License 50 scan points 50 scan points MHPC - B Industrial Computer MHIM- 17A Industrial Monitor Keyboard/Mouse MHPC-B Industrial Computer MHIM-17B Industrial Monitor Keyboard/Mouse MHPC-F Industrial Computer MHIM-17B Industrial Monitor Keyboard/Mouse	Crane Maintenance St Performance Parameters CPU: Intel i7 1.6GHz RAM: 4GB Embedded Harddisk: 64GB SSD Monitor: 17" of Touch Screen Type Monitor CPU: Intel i3 1.6GHz RAM: 4GB Embedded Harddisk: 64GB SSD Monitor: 17" of Touch Screen Type Monitor CPU: Intel i7 1.6GHz RAM: 4GB Embedded Harddisk: 64GB SSD Monitor: 17" of Touch Screen Type Monitor CPU: Intel i3 1.6GHz RAM: 4GB Embedded	ation: MHCIMS-CMS ^{#1} Dimension/Installation Styles 550 × 220 × 1600mm W×D×H Electric Cabinet Installation 550 × 220 × 1600mm W×D×H Electric Cabinet Installation 490 × 140 × 600mm 490 × 140 × 600mm	Communicati Modes Ethernet/ RS232/485 Ethernet/ RS232/485	on Protection Grades IP21 IP21 IP21 IP21 IP21	SCADA. Working Temperature 0~50°C 0~50°C
Keyboard/Mouse Monitor: 17" of Touch Screen Driver's Cab Installation RS232/485	Oth →MH-SCADA 7 Model CIMS-CMS-A02 CIMS-CMS-A03 CIMS-CMS-B02 CIMS-CMS-B03	n Point License 50 scan points 50 scan points MHPC - B Industrial Computer MHIM- 17A Industrial Monitor Keyboard/Mouse MHPC-B Industrial Computer MHIM-17B Industrial Monitor Keyboard/Mouse MHPC-F Industrial Computer MHIM-17B Industrial Monitor Keyboard/Mouse	Crane Maintenance St Performance Parameters CPU: Intel i7 1.6GHz RAM: 4GB Embedded Harddisk: 64GB SSD Monitor: 17" of Touch Screen Type Monitor CPU: Intel i3 1.6GHz RAM: 4GB Embedded Harddisk: 64GB SSD Monitor: 17" of Touch Screen Type Monitor CPU: Intel i7 1.6GHz RAM: 4GB Embedded Harddisk: 64GB SSD Monitor: 17" of Touch Screen Type Monitor CPU: Intel i3 1.6GHz RAM: 4GB Embedded Harddisk: 64GB SSD	ation; MHCIMS-CMS ^{III} Dimension/Installation Styles 550 × 220 × 1600mm W×D×H Electric Cabinet Installation 550 × 220 × 1600mm W×D×H Electric Cabinet Installation 490 × 140 × 600mm W×D×H	Communicati Modes Ethernet/ RS232/485 Ethernet/ RS232/485 Ethernet/	MH-S ion Protection Grades IP21 IP21 IP21 IP54	SCADA. Working Temperature 0~50°C 0~50°C 0~50°C
Turo Monitor	CIMS-CMS-B02 CIMS-CMS-B02 CIMS-CMS-B02	n Point License 50 scan points 50 scan points 50 scan points 50 scan points 50 scan points er codes: other scan points MHPC - B Industrial Computer MHIM- 17A Industrial Monitor Keyboard/Mouse MHPC-B Industrial Computer MHIM-17B Industrial Monitor Keyboard/Mouse MHPC-F Industrial Computer MHIM-17B Industrial Monitor Keyboard/Mouse	Crane Maintenance St Performance Parameters CPU: Intel i7 1.6GHz RAM: 4GB Embedded Harddisk: 64GB SSD Monitor: 17" of Touch Screen Type Monitor CPU: Intel i3 1.6GHz RAM: 4GB Embedded Harddisk: 64GB SSD Monitor: 17" of Touch Screen Type Monitor CPU: Intel i7 1.6GHz RAM: 4GB Embedded Harddisk: 64GB SSD Monitor: 17" of Touch Screen Type Monitor CPU: Intel i3 1.6GHz RAM: 4GB Embedded Harddisk: 64GB SSD Monitor: 17" of Touch Screen Type Monitor	ation: MHCIMS-CMS ^{mil} Dimension/Installation Styles 550 × 220 × 1600mm W×D×H Electric Cabinet Installation 550 × 220 × 1600mm W×D×H Electric Cabinet Installation 490 × 140 × 600mm W×D×H Driver's Cab Installation	Communicati Modes Ethernet/ RS232/485 Ethernet/ RS232/485 Ethernet/ RS232/485	MH-S on Protection Grades IP21 IP21 IP21 IP54	SCADA. Working Temperature 0~50°C 0~50°C 0~50°C
Tune Meniter	MH-SCADA 7 Model CIMS-CMS-A02 CIMS-CMS-A03 CIMS-CMS-B02 CIMS-CMS-B03	n Point License 50 scan points 50 scan points 50 scan points 50 scan points 51 scan points 52 scan points 53 scan points 54 scan points 54 scan points MHPC - B Industrial Computer MHIM- 17A Industrial Monitor Keyboard/Mouse MHPC-B Industrial Computer MHIM-17B Industrial Monitor Keyboard/Mouse MHPC-F Industrial Computer MHIM-17B Industrial Monitor Keyboard/Mouse	Crane Maintenance St Performance Parameters CPU: Intel i7 1.6GHz RAM: 4GB Embedded Harddisk: 64GB SSD Monitor: 17" of Touch Screen Type Monitor CPU: Intel i3 1.6GHz RAM: 4GB Embedded Harddisk: 64GB SSD Monitor: 17" of Touch Screen Type Monitor CPU: Intel i7 1.6GHz RAM: 4GB Embedded Harddisk: 64GB SSD Monitor: 17" of Touch Screen Type Monitor CPU: Intel i3 1.6GHz RAM: 4GB Embedded Harddisk: 64GB SSD Monitor: 17" of Touch Screen Type Monitor	ation: MHCIMS-CMS ^{#1} Dimension/Installation Styles 550 x 220 x 1600mm W×D×H Electric Cabinet Installation 550 x 220 x 1600mm W×D×H Electric Cabinet Installation 490 x 140 x 600mm W×D×H Driver's Cab Installation 490 x 140 x 600mm W×D×H Driver's Cab Installation	Communicati Modes Ethernet/ RS232/485 Ethernet/ RS232/485 Ethernet/ RS232/485	on Protection Grades IP21 IP21 IP21 IP21 IP21 IP21 IP21	SCADA. Working Temperature 0~50°C 0~50°C 0~50°C

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MMSC MM 9 2,09M OPU mode, organ and and mode in privated or prior starts and and a start start. Signal organ MMSC AMA 52007 OP 8 and start mode in Privated organ and and a start start a start start. MMSC AMA 52007 OP 8 and start mode in Privated organ and and and and a start start a start start. MMSC AMA 52007 OP 8 and start mode in Privated organ and and and and and and and and and a	Equipment	Description	Туре	Interface	
MMSC 0014 02:092 DP SLOP station mode, ip yerstress ergstern Periods Of Me das communation, it can be also estable, MMSC 0014 02:0014 MMSC 0014 02:0014 02:0014 MSU 0014 02:0014 MSU 0014 02:0014 MMI 0015 01:0010 CPU mode is mode Periods DP refer to communation, it can be an estable, MMI 0015 01:0010 MMI 0015 01:0010 CPU mode is mode Periods DP refer to communation, it can be an estable, MMI 0015 01:0010 A status mode, response of MMI 0015 01:0010 MMI 0015 01:0010 MARCE 01:0000 A status mode, response of MMI 0015 01:0000 A status mode, response of MMI 0015 01:0000 MMI 0015 01:0010 MARCE 01:0000 MARCE 01:0000 D be a comparison MMI 0015 01:0000 MMI 0015 01:0010 MARCE 01:0000 MARCE 01:00000 MARCE 01:00000 MMI 0015 01:0010 MARCE 01:000000 MARCE 00:000000000 MARCE 00:0000000000000000000000000000000000		MSLC-MU-8-220PM	CPU module, could be main station	Profibus-DP field bus communication. It can be main station.	
Interface Operation of the set of the	Signal Logic	MSLC-MU-8-220PZ	DP SLave station module. For interface expend.	Profibus-DP field bus communication. It can be a slave station.	
MALE 31-800Adatage mproduce10 bits opticityMALE 31-807Adatage mproduce10 bits optic and additional adataMALE 31-807CPU includeStaget of Hame ACD 94 bits optimization additional adataMALE 323 12P11CPU includePortug CPI effs due a construction. It can be a stabulateMALE 323 12P11Adatage topic modelPortug CPI effs due a construction. It can be a stabulateMALE 323 12P11Adatage topic modelPortug CPI effs due a construction. It can be a stabulateMALE 321 12B20Adatage topic modelPortug CPI effs due acommunation. It can be a stabulateMALE 321 12B20Adatage topic modelCAUSERMALE 321 12B20Adatage topic modelCAUSERMALE 321 12B20Adatage topic modelCAUSERMALE 321 12B20Adatage topic modelCAUSERMALE 321 12B20MALE 321 12B20Adatage topic modelCAUSERMALE 321 12B20MALE 321 12B20Adatage topic modelCAUSERMALE 321 12B20MALE 321 12B20<	Controller	MSLC-IN-16-220	Digital input module	16 switch-mode inputs, 220V AC	
H1119021428E03 CPU mode Produce Proteins S7 TCP communication it as an its state. H4119022517031 DP laws at also mode. Produce Proteins CPU Proteins S7 TCP communication it as an its state. H4119022517031 DP laws at also mode. Produce Proteins CPU Proteins S7 TCP communication it as a law at state. H41190225118010 Astategin promunde (CPUsp Proteins) 4 settings prod. 100 H41190225118010 Astategin promunde (CPUsp Proteins) 4 settings prod. 100 H4119025118010 Astategin promunde (CPUsp Proteins) 4 settings prod. 100 H4119025118010 Topper Proteins Proteins Proteins Proteins H5111111111111111111111111111111111111		MSLC-SI-10/0	Analogue input module	10 analogue inputs, 4~20mA	
Head Head Particle PM bits consumption in the a size statem HM VMP 325 11971 PP and statem mode (Water Spiel Bits communication in the a size statem HM VMP 325 11920 Analogie input mode (Vaters Spiel) 4 vaters prove 1100 HM VMP 325 11920 Analogie input mode (Vaters Spiel) 4 vaters prove 1100 HM VMP 325 11920 Analogie input mode (Vaters Spiel) 4 vaters prove 1100 HM VMP 325 11920 Mathem 200 Bits input mode (Vaters Spiel) 4 vaters prove 1100 HM VMP 325 11920 Mathem 200 Bits input mode (Vaters Spiel) 4 vaters prove 1100 MM VMP 325 11920 Mathem 200 Bits input mode (Vaters Spiel) Analogie oxid, 4 200 Accerns Spiel MM VMP 325 11921 Bathem 200 Bits input mode (Vaters Spiel) Analogie oxid, 4 200 Accerns Spiel MM VMP AND 325 11921 Bathem 200 Bits input mode (Vaters Spiel) Analogie oxid, 4 200 Accerns Spiel MM VMP AND 201 Bits input mode (Vaters Spiel) Mathem 200 Bits input mode (Vaters Spiel) Pole oxid MM VMP AND 201 Bits input mode (Vaters Spiel) Bots input mode (Vaters Spiel) Pole oxid MM VMP AND 201 Bits input mode (Vaters Spiel) Bots input mode (Vaters Spiel) Pole oxid MM VMP AND 201 Bits input mode (Vaters Spiel) <td></td> <td>MH-VIPA 214-2BE03</td> <td>CPU module</td> <td>Integrated Ethernet-CP243 interface, S7 TCP communication</td>		MH-VIPA 214-2BE03	CPU module	Integrated Ethernet-CP243 interface, S7 TCP communication	
PAC MA-LVRR 223-10291 DP date states module Profess 2P foot bas communication. It can be a size states. MA-LVRR 221-10201 Anaroga more module (Votapon) 4 - 4016 a 1070 / 10000 / 1000 / 1000 / 1000 / 10000 / 1000 / 1000 / 1000 / 1000 / 1		MH-VIPA 208-1DP01	DP main station module	Profibus-DP field bus communication. It can be main station.	
FLC MeX-VPX 221-15911 Digital input module 18 Sathtmode leptes. 2201 AC MM VPX 231-18020 Anarger span module (Varger type) 4 subger span. 107 Equipment Description Type Output Equipment Description Type Output MM VMV.14 Single hock Description Description MM VMV.14 Single hock Description Description MM VMV.14 Data brokes Analogue output. 4-20th Acurent signals MM VMV.14 Data brokes Debra output MM VMV.14 Data brokes Debra output MM VMV.14 Data brokes Debra output MM VMV.14 Data drawn Debra output MM VMV.15 Dorn drawn <td></td> <td>MH-VIPA 253-1DP01</td> <td>DP slave station module</td> <td>Profibus-DP field bus communication. It can be a slave station.</td>		MH-VIPA 253-1DP01	DP slave station module	Profibus-DP field bus communication. It can be a slave station.	
Mit.VH.231.18020 Analogue input model (Matage type) 4 vortage input .10V Mit.VHR.231.18020 Analogue input model (Current type) 4 vortage input .20VA Equipment Mit.VHR.231.18020 Total activity account and activity account and activity account activity	PLC	MH-VIPA 221-1BH10	Digital input module	16 Switch-mode inputs, 220V AC	
Mit VPA 231 180-0 Analogue input model (Current type) 4 current input. 201mk Exegement Exegement Single frok Analogue input model (Current type) Mit MMI, ALI Single frok Analogue input model (Current type) Mit MMI, ALI Single frok Analogue input model (Current type) Mit MMI, ALI Single frok Analogue output - 420m Analogue output - 42		MH-VIPA 231-1BD30	Analogue input module (Voltage type)	4 voltage input, ±10V	
Equipment Equipment Type Oxfact Equipment Description Type Oxfact MEH-Hall Single hock Antengin calpit. 4-bits current signals MEH-HALL Single hock DP iss culpid. MEH-HALLAL Double hocks Antengin calpit. 4-bits current signals MEH-HALLARDP Double hocks Antengin calpit. 4-bits current signals MEH-HALLARDP Double hocks OP bits culpid. MEH-HALLARDP Doglid disple Antengin calpit. 4-bits current signals MEH-HALLARDP Doglid disple Antengin calpit. 4-bits current signals MEH-LXDP-TP Total scient disple Antengin calpit. 4-bits current signals MEH-CXDP-TP Total scient disple Antengin calpit. 4-bits current signals MEH-CXDP-TP Total scient disple Antengin calpit. 4-bits current signals MEH-CXDP-TP Total scient disple Antengin calpit. 4-bits current signals MEH-CXD Total scient disple Switch mole colpit. MEH-CXD Due reflective work calp. 0-160. 11. 100/120160 Switch mole colpit. Stota Linter MH-HCXC Tot		MH-VIPA 231-1BD40	Analogue input module (Current type)	4 current input. +20mA	
ForumTypeControlMinitedMinitedAnalogae odd, 4-20% contral guideMinited <t< td=""><td></td><td>Equipment La</td><td>ver: Functional switches, sensors and analogue sign</td><td>nal transmitters^{#1}</td></t<>		Equipment La	ver: Functional switches, sensors and analogue sign	nal transmitters ^{#1}	
Mitham Mitham Mitham Mitham Single book DP bis output Mitham Single book DP bis output Mitham Mitham Analogue output 4-20m Aurent signals Mitham Mitham Digital display Analogue output 4-20m Aurent signals Mitham Mitham Digital display Analogue output 4-20m Aurent signals Mitham Mitham Digital display Analogue output 4-20m Aurent signals	Equipment	Description	Туре	Output	
Heat Load Load MH-HML-AdP Single hox DB De Glyau MH-HML-AHS-D Double hoxs D'hao Glyau MH-HML-AHS-DP Double hoxs D'hao Glyau MH-HML-AHS-CP Three hoxs Analogue output - 4-2mA current signals MH-HML-AHS-CP Three hoxs Analogue output - 4-2mA current signals MH-LKLTP Three hoxs O'D'B disgla disglay Analogue output - 4-2mA current signals MH-LKLTP Three hoxs O'D'B disglay Analogue output - 4-2mA current signals MH-LKLTP Three hoxs O'D'B disglay Analogue output - 4-2mA current signals MH-LKLTP Three hoxs O'D'B disglay Analogue output - 4-2mA current signals MH-LKLTP D'D'B' disglay Analogue output - 4-2mA current signals MH-LKLTP D'D'B' disglay Skith mode output MH-LKLTP D'D'B' did'B'D'D'D'D'D'D'D'D'D'		MH-HWL-A-I	Single hook	Analogue output, 4~20mA current signals	
Heat Load Link MA-HML A+B-IP Double hooks Analogue odput. 4-20mA current signals MH-HML A+B-IP Double hooks MD be book odput MH-HML A+B-IP Double hooks Analogue odput. 4-20mA current signals MH-HML A+B-IP Three hooks Analogue odput. 4-20mA current signals MH-LXA TP Digital display Analogue odput. 4-20mA current signals MH-LXA TP Three hooks Analogue odput. 4-20mA current signals MH-LXA TP Digital display Analogue odput. 4-20mA current signals MH-LXA TP Three hooks Analogue odput. 4-20mA current signals MH-LXA TP Three hooks (to the tot tot tot tot tot tot tot tot tot to		MH-HWL-A-DP	Single hook	DP bus output	
Network with the sector of the sect	Hoist Load Limiter	MH-HWL-A+B-I	Double hooks	Analogue output, 4~20mA current signals	
MH+HWL-AHB-C2 Three hoaks Anatogue outpl. 4-20m Acurent signals MH+HWL-AHB-C3PP Three hoaks DP bas outpl. MH-LX-I Diptal display Anatogue outpl. 4-20m Acurent signals MH-LX-I Diptal display Anatogue outpl. 4-20m Acurent signals MH-LX-IPP Touch screen display OP bas outpl. MH-LX-IP Tour effective work coils: 0-40 Switch mode outpl. MH-LX-IP MH-LX-IP Switch mode outpl. MH-LX-IP Indetective work coils: 0-40 Switch mode outpl. MH-LX-IP Indetective work coils: 0-40 Switch mode outpl. MH-LX-IP Indetective work coils: 0-40 Switch mode outpl. O	TIOISt LOad Limiter	MH-HWL-A+B-DP	Double hooks	DP bus output	
Ms+HMLA+B-C.CP Three holds OPD bis output M4LX.1P Digital display Analogue output, 4-20mA current signals MHLX.DP Digital display Analogue output, 4-20mA current signals MHLX.DP.TP Touch screen display DP bis output MHLX.DP.TP Touch screen display DP bis output MH-DXA Durin effective work coils: 0-00 Touch screen display DP bis output MH-DXA Durin effective work coils: 0-01 South mode outputs MH-DXA Durin effective work coils: 0-01 South mode outputs MH-DXA Durin effective work coils: 0-01 South mode outputs MH-DXA Control loops South mode outputs MH-DXA I control loops South mode outputs MH-DXA I control loops South mode outputs Protection Berlevice MH-DXA I control loops Protection Berlevice MH-DXA I control loops Protection Berlevice MH-DXA I control loops Protection Berlevice FZBJ-J-21 Undirectional, split type South mode outputs FZBJ-J-11		MH-HWL-A+B+C-I	Three hooks	Analogue output, 4~20mA current signals	
MH1-X1 Digital display Analogue output - 20m actuat signal MH1-X2-IP Touch screen display Analogue output - 20m Actuate signal MH1-X2-IP Digital display Analogue output - 20m Actuate signal MH1-X2-IP Touch screen display Interfactor work colsis40 MH1-X2 MH1-X2 Touch screen display Interfactor work colsis40 MH1-X4 Drum effector work colsis40 Switch mode outputs MH1-X5 Drum effector work colsis40 Switch mode outputs MH1-X6 Drum effector work colsis40 Switch mode outputs MH1-X6 Drum effector work colsis40 Switch mode outputs MH1-X6 2 control loops, water pool Switch mode outputs MH1-X6 2 control loops, water pool Switch mode outputs MH1-X6 2 control loops, water pool Switch mode outputs MH1-X6 2 control loops, water pool Switch mode outputs MH1-X6 2 control loops, water pool Switch mode outputs Pool MH1-X6 2 switch mode outputs Pool Switch mode outputs Switch mode outputs <tr< td=""><td></td><td>MH-HWL-A+B+C-DP</td><td>Three hooks</td><td>DP bus output</td></tr<>		MH-HWL-A+B+C-DP	Three hooks	DP bus output	
MH-LX-17P Touch sceen display DP bis output MH-LX-DP Digital display Anatogue output, 4-20mA current signals MH-LX-DP TP Touch screen display DP bis output MH-LX-DP TP Touch screen display DStatich mode outputs MH-GX-A Drum effective work coils: 0-40 Switch mode outputs MH-GX Drum effective work coils: 0-40 Switch mode outputs MH-GX Drum effective work coils: 0-10, 1: 100720100 Switch mode outputs MH-GX Drum effective work coils: 0-10, 1: 100720100 Switch mode outputs Stroke Limiter MH-GX 2 cornor loops Switch mode outputs MH-GX 1 control loops Switch mode outputs Switch mode outputs Over Speed OSP-D4 Midflunction Switch mode outputs F7EB-12.1 Undirectional, spit type Switch mode outputs Switch mode outputs F7EB-12.1 Undirectional, spit type Switch mode outputs 4-20mA current signals F7EB-12.1 Undirectional, spit type Switch mode outputs 4-20mA current signals Aremoscope MH-WS Areanoscope		MH-LX-I	Digital display	Analogue output, 4~20mA current signals	
Indigite limited MH-LX-DP Digital display Analogie output, 4-20mA current signals MH-LX-DP Touch screen display DP has output Restance MH-LX-DP Touch screen display DP has output Restance MH-LX-DP Touch screen display Switch mode outputs MH-LX-DP Drum effective work colls: 0-160; 1: 5007000 Switch mode outputs MH-LX-CP Drum effective work colls: 0-160; 1: 1001210/E00 Switch mode outputs MH-LX-CP Drum effective work colls: 0-160; 1: 1001210/E00 Switch mode outputs Strole Limiter MH-KX-C Drum effective work colls: 0-160; 1: 1001210/E00 Switch mode outputs Over Speed OSP-24 2 control loops, water proof Switch mode outputs Over Speed OSP-24 2 sentors or 4 sentors type Switch mode outputs Problection Device OSP-24 2 sentors or 4 sentors type Switch mode outputs Problection Device OSP-24 2 sentors or 4 sentors type Switch mode outputs Problection Device FZB-2.1 Undirectional, split type Switch mode outputs Problection Device FZB-2.2 Bi	T	MH-LX-I-TP	Touch screen display	DP bus output	
MH-LX PP-TP Touch scene digiby DP Pis solphil Rolation Linker MH-GXA Dume flective work coils: 0-40 Switch mode outputs Rolation Linker Dume flective work coils: 0-40 Switch mode outputs MH-GXA Dume flective work coils: 0-40 Switch mode outputs MH-GX Dume flective work coils: 0-400 Switch mode outputs MH-GX Dume flective work coils: 0-400 Switch mode outputs MH-GX Dume flective work coils: 0-400 Switch mode outputs Over Speed OSSP-24 2 control loops, water proof Switch mode outputs Protection Device OSSP-24 2 control loops, water proof Switch mode outputs Protection Device OSSP-24 2 control loops, water proof Switch mode outputs Protection Device OSSP-24 2 control loops, water proof Switch mode outputs Protection Device OSSP-24 2 control loops, water proof Switch mode outputs Protection Device Differentional, split type Switch mode outputs -2 cont aurent signals Protection Device Protectional, split type Switch mode outputs -2 co	Iorque Limiter	MH-LX-DP	Digital display	Analogue output, 4~20mA current signals	
Build Dum effective work coils: 0-40 (H19/13/2504004) Switch mode outputs MH-GX-G Drum effective work coils: 0-160, 1; 100/120/100 Switch mode outputs MH-GX-G Drum effective work coils: 0-160, 1; 100/120/100 Switch mode outputs Stoke Limit MH-GX-G Multifunctional limiter Switch mode outputs Stoke Limit MH-GX-G Multifunctional limiter Switch mode outputs Over Speet OGS-P-24 2 sension of sensors type Switch mode outputs Protection Dev OGS-P-24 2 sension of sensors type Switch mode outputs Protection Dev OGS-P-24 Undirectional, split type Switch mode outputs Protection Dev F2B3-2-31 Undirectional, split type Switch mode outputs Protection Dev F2B3-2-31 Undirectional, split type Switch mode outputs Protection Dev F2B3-2-31 Undirectional, split type Switch mode outputs Protection Dev F2B3-2-31 Undirectional, split type Switch mode outputs Protection Dev F2B3-2-31 Undirectional, split type Analogue output, 4-20m Acurent signals Proteo		MH-LX-DP-TP	Touch screen display	DP bus output	
Antional and the source of the sour		MH-GX-A	Drum effective work coils: 0~40	Switch mode outputs	
Median Laming MH-GX-C Drum effective work colis: 0~160, 1, 100/120160 Switch mode outputs MH-DX2 Multifunctional imitier Switch mode outputs Stroke Limiter MH+XC 2 control loops, water proof Switch mode outputs Over Speed OSP-24 2 ensors or 4 sensors type Switch mode outputs Protection Device OSP-24 2 ensors or 4 sensors type Switch mode outputs Protection Device OSP-24 2 ensors or 4 sensors type Switch mode outputs Protection Device OSP-24 2 ensors or 4 sensors type Switch mode outputs Anal-cotision FZBJ-2-J1 Undirectional, split type Switch mode outputs Anal-cotision FZBJ-3-12 Bidirectional, split type Switch mode outputs Device FZBJ-3-14 Undirectional, split type 4-20mA current signals Anemoscope MH+WS D-L Molecetares Analogue output, 4-20mA current signals MH-MS D-L Molecetares Analogue output, 4-20mA current signals Anemoscope MH+WS D-L Contact type Switch mode outputs MH-WS D-L Molecetarese	Potation Limitor	MH-GX-B	Drum effective work coils: 0~80; 1: 50/70/80	Switch mode outputs	
MH-DX2Multilunctional limiterSwitch mode outputsStroke LimiterMH-XC.J2 control loops, water proofSwitch mode outputsOwer SpeedOSP-242 sensors or 4 sensors typeSwitch mode outputsProtection DeviceOSP-29MultifunctionSwitch mode outputsProtection DeviceOSP-29MultifunctionSwitch mode outputsAndi-colisionFZBJ-2.11Undirectional, sell typeSwitch mode outputsProtection DeviceFZBJ-2.12Bidirectional, split typeSwitch mode outputsProtection DeviceFZBJ-3.11Undirectional, split typeSwitch mode outputsProtection DeviceFZBJ-3.12Bidirectional, split typeSwitch mode outputsProtection DeviceFZBJ-3.12Bidirectional, split typeSwitch mode outputsProtection DeviceFZBJ-3.12Bidirectional, split type4-20mA current signalsAnemoscopeMH-WSAnemoscopeAnalogue output, 4-20mA current signalsAnemoscopeMH-WSContact typeSwitch mode outputsAbsolute EncoderMH-CJAdjustableAnalogue output, 4-20mA current signalsAnalogueMH-CGPhotosiectric typeSwitch mode outputsAnalogueMH-CGAdjustableAnalogue output, 4-20mA current signalsAbsolute EncoderMH-CGAdjustableAnalogue output, 4-20mA current signalsAnalogueMH-CGAdjustableAnalogue output, 4-20mA current signalsAnalogueMH-CGAdjustableAnalogue inputs, 4-20mA current signals	Rotation Limiter	MH-GX-C	Drum effective work coils: 0~160; 1: 100/120/160	Switch mode outputs	
Stroke Limiter MH-XC 2 control loops, water proof Switch mode outputs Over Speed OSP-24 2 sensors of 4 sensors type Switch mode outputs Protection Device OSP-20 Multifunction Switch mode outputs Protection Device OSP-20 Multifunction Switch mode outputs Anti-collision FZBJ-2.1 Undirectional, split type Switch mode outputs FZBJ-2.1 Undirectional, split type Switch mode outputs Protection FZBJ-2.1 Undirectional, split type Switch mode outputs Protection FZBJ-3.1.1 Undirectional, split type Switch mode outputs Protection FZBJ-3.1.2 Bidirectional, split type Switch mode outputs Anemoscope MH-WS Anemoscope Analogue output, -20mA current signals MH-KC Contact type Switch mode outputs -20mA current signals Anemoscope MH-WS Anemoscope Analogue output, -20mA current signals MH-KC Contact type Switch mode outputs -20mA current signals Anemoscope MH-WS Anenoscope		MH-DXZ	Multifunctional limiter	Switch mode outputs	
Stroke Limiter M4-XC-J 1 control loops Switch mode outputs Over Speed OSP-2/4 2 sensors or 4 sensors type Switch mode outputs Protection Device OSP-2/4 2 sensors or 4 sensors type Switch mode outputs Protection Device OSP-2/4 Undirectional. Sensors and control module are integrated Switch mode outputs Andi-collision FZBJ-2-J1 Undirectional, split type Switch mode outputs Device FZBJ-3-L1 Undirectional, split type Switch mode outputs Andi-collision FZBJ-3-L2 Bidirectional, split type Switch mode outputs Protection FZBJ-3-L2 Bidirectional, split type Switch mode outputs Anemoscope MH-WS Anemoscope Analogue output, 4-20m A current signals Mi-MS Anemoscope Analogue output, 4-20m A current signals MH-WS Anemoscope Analogue output, 4-20m A current signals MH-WS Anemoscope Analogue output, 4-20m A current signals Anemoscope MH-WS Analogue output, 4-20m A current signals Anemoscope MH-WS Analogue output, 4-20m A current		MH-XC	2 control loops, water proof	Switch mode outputs	
Over Speed OSP-24 2 sensors or 4 sensors type Switch mode outputs Protection Device OSP-D Multifunction Switch mode outputs Anti-colision FZBJ-2-J Undirectional. Sensors and control module are integrated Switch mode outputs Anti-colision FZBJ-2-J1 Undirectional, split type Switch mode outputs Device FZBJ-3-J2 Bidirectional, split type Switch mode outputs Problem FZBJ-3-L1 Undirectional, split type Switch mode outputs Anti-colision FZBJ-3-L2 Bidirectional, split type Switch mode outputs Problem FZBJ-3-L2 Bidirectional, split type 4-20mA current signals Anemoscope MH-WS Anemoscope Analogue outputs 4-20mA current signals Mi-MS-D-L Wind speed sensor Analogue outputs 4-20mA current signals MH-WS-D-L Wind speed sensor Analogue outputs 4-20mA current signals Absolute Encoder MH-CD Photoelectric type Switch mode outputs Analogue outputs 4-20mA current signals Analogue anduts AST VOCP-01 6	Stroke Limiter	MH-XC-J	1 control loops	Switch mode outputs	
Protection Device OSP-D Multifunction Switch mode outputs And-collsion FZB.J-2.J Unidirectional. Sensors and control module are integrated Switch mode outputs And-collsion FZB.J-2.J1 Unidirectional. split type Switch mode outputs Device FZB.J-2.J2 Bidirectional, split type Switch mode outputs Provide FZB.J-3.L1 Unidirectional, split type Switch mode outputs + Analogue output, 4-20mA current signals Anemoscope MH-WS Anemoscope Analogue output, 4-20mA current signals Memoscope MH-WS On the sensor Analogue output, 4-20mA current signals Memoscope MH-WS Contact type Switch mode outputs MH-GD Photoelectric type Switch mode outputs Absolute Encoder MH-C-D Adjustable Analogue output, 4-20mA current signals Analogue MH-C-D Adjustable Analogue output, 4-20mA current signals Analogue MH-C-DP Adjustable Analogue output, 4-20mA current signals Analogue MH-C-DP Adjustable Analogue inputs, 4-20mA current signals <	Over Speed	OSP-2/4	2 sensors or 4 sensors type	Switch mode outputs	
F2BJ-2.JUnidirectional. Sensors and control module are integratedSwitch mode outputsAnti-collision DeviceF2BJ-2.J2Unidirectional, split typeSwitch mode outputsDeviceF2BJ-2.J2Bidirectional, split typeSwitch mode outputs + Analogue output, 4-20mA current signalsDeviceF2BJ-3.L1Unidirectional, split typeSwitch mode outputs + Analogue output, 4-20mA current signalsAnemoscopeMH+WSAnemoscopeAnalogue output, 4-20mA current signalsMH-WSAnemoscopeAnalogue output, 4-20mA current signalsMH-RCContact typeSwitch mode outputs + Analogue output, 4-20mA current signalsHoits BrakeMH-RCContact typeSwitch mode outputsMH-RCPhotoelectric typeSwitch mode outputsAbsolute EncodeMHEC-DPAdjustableDP bus outputAnalogue Information TransmitterAST VIC6-016 0-2000V voltage signals transmissionMultiple analogue inputs, 4-20mA current signals gianals transmissionAnalogue Information TransmitterDescription6 0-2000V voltage signals transmissionMultiple analogue inputs, 4-20mA current signals gianals transmissionMH-DCD212D130 0-52001V voltage signals transmissionMultiple analogue inputs, 4-20mA current signals gianals transmissionCameraDescriptionTypeParametersMH-DCD212D13Gun type camera132W pixel, 960PMH-DCD212D13Gun type camera132W pixel, 960PMH-DCD212D13Gun type camera132W pixel, 960PMH-DCD212D13	Protection Device	OSP-D	Multifunction	Switch mode outputs	
Anti-collision FZBJ-2.11 Unidirectional, split type Switch mode outputs Device FZBJ-2.12 Bidirectional, split type Switch mode outputs Device FZBJ-3.11 Unidirectional, split type Switch mode outputs FZBJ-3.12 Bidirectional, split type Switch mode outputs 4-20mA current signals FZBJ-3.12 Bidirectional, split type Switch mode outputs 4-20mA current signals Anemoscope MH-WS Anemoscope Analogue output, 4-20mA current signals Hoist Brake MH-WS Contact type Switch mode outputs Hoist Brake MH-CO Photoelectric type Switch mode outputs Absolute Encoder MH-CO Photoelectric type Switch mode outputs Analogue MH-CO Adjustable DP bus output Analogue MH-CO Adjustable Analogue output, 4-20mA current signals Analogue MCT-0.66 Multiple primary side current signals transmission Multiple analogue inputs, 4-20mA current signals Analogue AST V0C6-01 6 0-500U* Voltage signals transmission Multiple analogue inputs, 4-20mA current signals<		FZBJ-2-J	Unidirectional. Sensors and control module are integrated	Switch mode outputs	
Anti-collision Device FZBJ-2-J2 Bidirectional, split type Switch mode outputs Device FZBJ-3.11 Undirectional, split type Switch mode outputs + Analogue output, 4-20mA current signals FZBJ-3.12 Bidirectional, split type Switch mode outputs + Analogue output, 4-20mA current signals Anemoscope MH-WS Anemoscope Analogue output, 4-20mA current signals Memoscope MH-WS Contact type Analogue output, 4-20mA current signals Hoist Brake MH-CO Photoelectric type Switch mode outputs MHEC-DP Adjustable DP bus output DP bus output Absolute Encoder MHEC-J Adjustable Analogue output, 4-20mA current signals Analogue Information MCT-0.86 Multiple primary side current range is optional. Secondary current signals Analogue Information AST V0C6-01 6 0-5A current signals transmission Multiple analogue inputs, 4-20mA current signals Transmitter AST V0C6-01 6 0-5A current signals transmission Multiple analogue inputs, 4-20mA current signals Transmitter AST V0C6-01 6 0-5A current signals transmission Multiple analogue inputs, 4-20mA current si		FZBJ-2-J1	Unidirectional, split type	Switch mode outputs	
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$\begin{tabular}{ c c c } \hline c c c c c c c c c c c c c c c c c c $	Device	FZBJ-3-L1	Unidirectional, split type	Switch mode outputs + Analogue output,	
FZB3-12Bidirectional, split typeContent tionals -4-20mA current signalsAnemoscopeMH-WSAnemoscopeAnalogue output, 4-20mA current signalsAnemoscopeMH-WS-D-LWind speed sensorAnalogue outputs, voltage signalsHoist BrakeMH-CDContact typeSwitch mode outputsMH-CDPhotoelectric typeSwitch mode outputsAbsolute EncoderMHEC-JPAdjustableOP bus outputAbsolute EncoderMHEC-JAdjustableAnalogue output, 4-20mA current signalsAnalogueMHEC-JAdjustableAnalogue output, 4-20mA current signalsAnalogueMHEC-JAdjustableAnalogue output, 4-20mA current signalsAnalogueMCT-0.66Multiple primary side current range is optional.Secondary current output: 0-5AAnalogueAST V0C6-016 0-5A current signals transmissionMultiple analogue inputs, 4-20mA current signalsAnalogueAST V3C3-018 0-5A current signals transmissionMultiple analogue inputs, 4-20mA current signalsTransmitterMH-ZDET172-AJ3 0-5A current signal transmissionMultiple analogue inputs, 4-20mA current signalsEquipmentDescriptionTypeParametersMH-2DET172-AJSpherical camera132W pixel, 960P, audio inputsMH-2DET172-AJGun type camera130W pixel, 960P,MH-2DE1203-I3-JGun type camera100W pixel, 720PHardisk RecorderMH-API—8 input, support 2 hardisksMH-2DE1203-I3-JGun type camera8 input, support 2 hardisks <td></td> <td></td> <td></td> <td>4~2011A current signals</td>				4~2011A current signals	
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Hoist BrakeMH-XCContact typeSwitch mode outputsMode MH-GDPhotoelectric typeSwitch mode outputsAbsolute EncoderMHEC-DPAdjustableDP bus outputMHEC-JAdjustableAnalogue output, 4-20mA current signalsCircuit TransformerMCT-0.66Multiple primary side current range is optional.Secondary current output: 0-5AAnalogue Information TransmitterAST V0C6-016 0-5A current signals transmissionMultiple analogue inputs, 4-20mA current signalsAST V3C3-013 0-5A current signal transmissionMultiple analogue inputs, 4-20mA current signalsBrayAST V3C3-013 0-5A current signal transmissionMultiple analogue inputs, 4-20mA current signalsEquipmentDescriptionTypeParametersCameraMH-2DE7172-A-JSpherical camera132W pixel, 960P, audio inputsMH-2DE7172-A-JGun type camera130W pixel, 960PMH-2CD212D-I3Gun type camera100W pixel, 720PHarddisk RecorderMH-SNH—8 input, support 2 harddisksMidgelAPMH-AP—0 4.4GHz. 300Mbps	Anemoscope	MHWS-D-L	Wind speed sensor	Analogue outputs, voltage signals	
MH-GDPhotoelectric typeSwitch mode outputsAbsolute EncoderMHEC-DPAdjustableDP bus outputAbsolute EncoderMHEC-JAdjustableAnalogue output, 4-20mA current signalsCircuit TransformerMCT-0.66Multiple primary side current range is optional.Secondary current output: 0-5AAnalogue InformationAST VOC6-016 0-5A current signals transmissionMultiple analogue inputs, 4-20mA current signalsAnalogue InformationAST VGC0-016 0-2000V voltage signals transmissionMultiple analogue inputs, 4-20mA current signalsTransmitterAST V3C3-013 0-5A current signal transmission; 3 0-2000V voltage signals transmissionMultiple analogue inputs, 4-20mA current signalsEquipmentDescriptionTypeParametersMH-2DE7172.A-JSpherical camera132W pixel, 960P, audio inputsMH-2DE7172.A-JGun type camera130W pixel, 960PMH-2CD1203D-I3-JGun type camera100W pixel, 720PHarddisk RecorderMH-SNH—8 input, support 2 harddisksMidgle/PMH-AP—8 input, support 2 harddisks	Hojet Rrako	MH-XC		Switch mode outputs	
Absolute EncoderMHEC-DPAdjustableDP bus outputMHEC-JAdjustableAnalogue output, 4-20mA current signalsCircuit TransformerMCT-0.66Multiple primary side current range is optional.Secondary current output: 0-5AAnalogue Information TransmitterAST V0C6-016 0-5A current signals transmissionMultiple analogue inputs, 4-20mA current signalsAnalogue Information 	HUISE BLAKE	MH-GD	Photoelectric type	Switch mode outputs	
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MH-2CD1203D-I3-J Gun type camera 100W pixel, 720P Harddisk Recorder MH-SNH — 8 input, support 2 harddisks Bridge/AP MH-AP — 2.4GHz, 300Mbps		MH-2CD2212D-I3	Gun type camera	130W pixel, 960P	
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	Bridge/AP	MH-AP		2.4GHZ、JUUMDPS	

MHCIMS-Ultimate Type

MHCIMS-Customized Type (Networked Solution of all Resources)



Profile of System

- A comprehensive crane management platform for implementing comprehensive analysis of Enterprise Management Laver and Decision-making Layer for crane assets.
- A stable and highly efficient wireless communication network is used to ensure speed and reliability. Powerful Ground Data Center is equipped with the correct communication equipment for the gathering of equipment layer data.
- Software modules can freely be selected by customers. Fully customized software functions can be designed for customers.
- It is scalable and suitable for workshop, factory and enterprise size crane asset management. •
- It fully meets customers' individual management requirements, through customisation. •
- The MHCIMS Database can be connected to enterprise production management system and share data.

Functionalities

MHCIMS-Customized system can be implemented in a networked and operations management system. In addition it can send data to the Management and Decision-making Layer of an organization. Apart from the standard monitoring features it offers crane working status analysis, crane availability rate analysis, crane dispatch and a complete factory wide management platform. In addition it offers a comprehensive management of spare parts, expense and cost calculations - across the whole factory including power consumption analysis, crane working efficiency estimation and so on. In the Enterprise decision-making platform layer, it can provide reinforced crane working safety management such as planning of crane annual maintenance and safety check plan, crane fault statistics and analysis and so on. It helps purchasing department to purchase and distribute crane spare parts through pre-calculation of spares requirements and so on. Offering a highly efficient use of crane assets through intelligent management and decision making can be realized with MHCIMS. MHCIMS-Customized allows various modules to be selected and also supports any level of customization based on customers individual needs and requirements.





Network Function

- WEB server functionality is provided.
- WEB clients can directly access data by browser or • MHCIMS remote interface.
- Remote terminals can obtain field data service. •
- Remote access and login operation can be recorded on servers

Production Management

- Production commands and messages can be sent to • each terminal
- It helps production and operation personnel to realize delivery and confirmation of production commands.
- Production command message is logged into data base.
- Accuracy of command effective time is enhanced and executive ability of production plan is reinforced
- Data record contributes to analyzing production law • and improving production plan.
- Data can be shared by enterprise information management ٠ systems.

MHCIMS-Customized Type (Networked Solution of all Resources)





MH Large-scaled Harbor Crane Information Management System

Customers Service

- Multiple terminal operation and parallel query in factory are offered.
- Crane information is obtained from servers, Management view is unified.
- It is convenient to increase number of visits and • extend network.

Remote Diagnosis

- Customers can be connected to Diagnostic Service • Platform of MH Company in online or offline mode.
- Diagnosis and analysis of equipment is implemented • by professional engineers with rich experience.
- Diagnostic Service Platform can remotely be connected • to field MHCIMS and obtain data.
- Professional comprehensive evaluation of equipment and suggestion of how to improve operations can be provided.
- Customers can custom-edit and submit crane working related questions.

MHCIMS-Customized Type (Networked Solution of all Resources)

Equipment List

MHCIMS-Customized Crane Information Management System: MHCIMS-C2.0- $\Box\Box\Box\Box\Box \rightarrow$ (Project Number, five-digit number is provided by MH Company)

Crane mormation manage	ement system software V2.0: MHCIMS-S	SW2.0-C(Software Serial Number: two-digit number is provided by MH company) → Project serial number	
Software Module	Туре	Information for order	
Real-time Status CIMS-MHRT-0100		It is optional. It is an extension module of MHCIMS-Customized Crane Information Management System.	
Historical Curve CIMS-MHRT-0200		It is optional. It is an extension module of MHCIMS-Customized Crane Information Management System.	
Alarm Query CIMS-MHRT-0300		It is optional. It is an extension module of MHCIMS-Customized Crane Information Management System.	
Equipment Information CIMS-MHRT-0400		It is optional. It is an extension module of MHCIMS-Customized Crane Information Management System.	
System Management	CIMS-MHRT-0500	It is optional. It is an extension module of MHCIMS-Customized Crane Information Management System.	
Professional Diagnosis	CIMS-MHRT-0600	It is optional. It is an extension module of MHCIMS-Customized Crane Information Management System.	
Health Management	CIMS-MHRT-0701	It is optional. It is an extension module of MHCIMS-Customized Crane Information Management System.	
Item Check Management	CIMS-MHRT-0800	It is optional. It is an extension module of MHCIMS-Customized Crane Information Management System.	
Production Management	CIMS-MHRT-0900	It is optional. It is an extension module of MHCIMS-Customized Crane Information Management System.	
Client Service	CIMS-MHRT-1100	It is optional. It is an extension module of MHCIMS-Customized Crane Information Management System.	
Network Issue	CIMS-MHRT-1200	It is optional. It is an extension module of MHCIMS-Customized Crane Information Management System.	
		It is ontional. It is an extension module of MHCIMS_Customized Crane Information Management System	
Remote Diagnosis	CIMS-MHRT-1300	It is required to be connected to internet	
Power Efficiency Management	CIMS-MHRT-1501	It is an extension module of MHCIMS-Customized Crane Information Management System	
Tower Enciency Management		It is an extension module of Minorwo-oustonized orane mormation management System.	
Message Alarm	CIMS-MHRT-1000	service and support are required	
Customized Functions four-digit number provided by MH Sales Department)		Customized Module of MHCIMS-Customized Crane Information Management System	
	Department)		
0.7	Department)	Software license	
0 7 - 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Department)	License Form: USB Hasp Security Key of Smart UI Clients (Two-digit hexadecimal number. alue of single-machine solution (local solution) is 00.) a of MH-SC ADA Smart UI: Two-digit hexadecimal ue of single-machine solution (local solution) is 01. se: de Model of software license is different based on different project architecture. If you want to know the detailed license construction, please access. www.mh-scada.com and download model Selection Manual of MH-SCADA.	

MHCIMS-LDC%1 Ground Data Center						
Model	Main Components	Performance Parameters	Dimension/Installation Styles	Communication Modes	ProtectionGrades	Working Temperature
MHCIMS-LDC-A01	MHPC-E industrial computer MHIM-17A Industrial Monitor Mouse/Keyboard	CPU: Intel Core Duo 2.5GHz RAM: 2GB Hard disk: 500GB HDD Display: 17" touchable	800 x 1015x 1255mm W×D×H Workbench shaped station Setting in office	Ethernet	IP54	0~60° ℃
MHCIMS-LDC-B01	MHPC-E industrial computer MHIM-17A Industrial Monitor Mouse/Keyboard	CPU: Intel Core Duo RAM: 2GB Hard disk: 500GB HDD Display: 17" touchable	600 x 600 x 1800mm W×D×H Cabinet shaped station Setting in server room	Ethernet	IP54	0~60° ℃
		Wireless Communicating Sta	ation: MHCIMS-WLS ^{**1}			
Model	Main Components	Performance P	Parameters	Dimension	ProtectionGrades	Working Temperature
MHCIMS-WLS-A01	MHRD-IHG-A industrial radio Industrial Ethernet Switch	Channel: 2 Antenna: Distance between two station Interface: Ethe	2.4GHz 8db s(in workshop): <100m ernet cable	400 x 200 x 350mm W×D×H	IP54	0~60℃
MHCIMS-WLS-A02	MHRD-IHG-A industrial radio Fiber Ethernet Switch	Channel: 2.4GHz Antenna: 8db Distance between two stations(in workshop): <100m Interface: Fiber		400 x 200 x 350mm W×D×H	IP54	0~60°C
MHCIMS-WLS-A03	MHRD-IHG-A industrial radio	Channel: 2.4GHz Antenna: 8db Distance between two stations(in workshop): <100m Interface: Ethernet cable		400 x 200 x 350mm W×D×H	IP54	0~60℃
MHCIMS-WLS-B01	MHRD-IHN-A industrial radio Industrial Ethernet Switch	Channel: 2.4GHz Antenna: 12db MIMO Distance between two stations(in workshop): <400m Interface: Ethernet cable		400 x 200 x 350mm W×D×H	IP54	0~60℃
MHCIMS-WLS-B02	MHRD-IHN-A industrial radio Fiber Ethernet Switch	Channel: 2.4GHz Antenna: 12db MIMO Distance between two stations(in workshop): <400m Interface: Fiber		400 x 200 x 350mm W×D×H	IP54	0~60°C
MHCIMS-WLS-B03	MHRD-IHN-A industrial radio	Channel: 2 Antenna: 12 Distance between two station Interface: Ethe	2.4GHz db MIMO s(in workshop): <400m ernet cable	400 x 200 x 350mm W×D×H	IP54	0~60℃

X1: Customers can order appropriate hardware themselves according to the actual requirement.

MHCIMS-Customized Type (Networked Solution of all Resources)

Main Supporting Equipment-Introduction

Main Supporting Equipment-Introduction

Hardware equipment of MHCIMS - Crane Information Management System has been chosen and field tested to solve the need to run in various harsh environments. In addition the hardware has been chosen to ensure an optimized price performance level offering the most cost effective solution.

Crane Safety Monitor



Crane Safety Monitor is the hardware for crane basic safety monitoring which is monitoring and controlling crane operating mode such as lifting load, hoist height, operating time, working cycle, etc. It is also a reminding and a alarm for crane regular work, fully load, over load and etc. Crane safety operating status data are real-time logging and recording, and can be transmitted to remote monitoring platform by GPRS or radio.

MHSM-80/12-220G Dimension : W x D x H 310 x 120 x 305mm MHSM-1/1-220G Dimension : W x D x H 310 x 120 x 305mm

Crane Maintenance Station

MH Crane Maintenance Station is a basic platform for MHCIMS to deliver the Monitoring Layer. It obtains crane working information by collecting and monitoring crane data. It provides local crane monitoring and management functions. It usually includes an industrial PC, industrial monitor, keyboard, mouse, power support unit, and so on. MH Crane Maintenance Station is designed specifically use in special working environment, such as cranes' high temperature, heavy dust, high vibration, poor quality of power supply, high interference. It can endure fluctuation of power supply on site. It has automatic start function when the power is turned on (important for restarting system after power failure). It is designed for 24-hour working without operators' interference. It uses a special memory chip to prevent failure of operation system caused by abrupt power cut and enhances the system stability. It has one-key data recovery function. Starting point of time can be set. System status and data at starting point can be restored. Embedded soldering technique or special connectors are used for component connection, and loose connection caused by high crane vibration can be prevented. MH Company provides three different installation dimension styles of crane maintenance stations to customers. They can be selected according to customers'requirement.



It is recommended to be installed in electric cabinets MHCIMS-CMS-A Dimension (W x D x H) : 550 x 220 x 1600mm



Ground Data Center

Ground Data Center is the hub of the MHCIMS system network. It mainly provides function modules of realizing Management Layer and Decision-making Layer. It is the data acquisition centre and network centre for all remote user interfaces.



Piano Type Cabinet: It is convenient to customers' operation. It includes ground data server, debugging maintenance monitor, keyboard, mouse, switchboard, power supply unit and so on.

MHCIMS-LDC-A

Dimension (W x D x H) : 800 x 1015 x 1255mm

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Server Type Cabinet: Transparent tempered glass is used on the front. It includes ground data server, debugging maintenance monitor (optional), mouse, switchboard, power supply unit and so on. MH Company can provide various dimensions of cabinets according to customers'requirements.

MHCIMS-LDC-B

Dimension (W x D x H) : 600 x 600 x 1800mm

Industrial PC (MHPC-A/B)



MHPC-A/B

Crane Industrial PC is selected form special customized industrial PC. It does not have a fan. Industrial-grade embedded industrial PC application without wire connection in the entire PC greatly ensures the stable operation of the system.

Authentication	Energy Star, CE, FCC class A, UL, CCC, IP40, C-Tick
Dimension of Industrial PC	255×152×59mm
Crust	Aluminum
Installation	Hanger, rail, VESA Bus
Power Ratting	16W
Power Supply Requirement	9~36VDC(Minimum Power Ratting 36W)
Weight	2.5kg
System Design	Mute Design, without internal cables
Memory	1 ×CF, a 2.5" SATA HDD/SSD rack is set inside
Humidity	95%, 40 °C (No Condensation of Moisture)
Working Temperature	-10~70 [°] C(14~158°F)
Protection Grade	IP40
Impact Protection	IEC 60068-2-27F Standard : 50G @ wall mount,11ms HDD : 20G@ wall mount, Half-sine Wave,11ms
Vibration Protection	IEC 60068-2-64(Random 1Oct./min, 1hr/axis) Compact flash: 2Grms @ 5~500Hz, Hard disk: 1Grms @ 5~500Hz

Industrial PC (MHPC-E)



It is a special customized industrial PC for ground data center. It's supplied with AC120~240V. It has Standard 4U Rack Shelf Case. It offers very good performance and higher working stability.

Authentication		RoHS, CE, UL, CCC,	
Dimension of Industrial		482×177×480mm	
	Installation	Hanger	
	Power Ratting	400W	
	Power Supply	120~240V AC	
	Weight	20kg	
	Memory	SATA HDD/SSD rack is set inside	
	Humidity	85% , $40^\circ\!\!\mathbb{C}$ (No Condensation of	
	Working	0~40°C(32~104°F)	
	Protection Grade	IP20	

Industrial Monitor



harsh environments.

MHIM-17A/17B

LCD Display	17-inch Active Matrix Liquid Crysta	
Dimension of Display Screen	337.92mm×270.336mm	
Maximum Solution	SXGA 1280 x 1024 (75Hz)	
Visible Angle	Vertical -80 °~ +80° Horizontal -80 °~ +80°	
Working Condition	Temperature: 0°C ~ 50°C (32°F ~ 1) Humidity: 20% ~ 80% (No Conder Height above Sea Level: 12,000 fe	
Storage Condition	Temperature -20°C ~ 60°C (-4°F~ 1 Humidity: 10% ~ 90% (No Conder	
Dimension	306 x 368 x 49mm	
Weight	4.2kg	
Certificate of Authentication	UL, CUL, FCC-B, CE, VCCI, C-Tic CCC, China RoHS, MIC, BSMI	

Main Supporting Equipment-Introduction

Moisture)

High quality, durable and wide-angle Liquid Crystal Display is used. It has the characteristics of high sensitivity, high tightness (dust proof, water and sewage resistance) and excellent optical quality (high light transmission). It is particularly suitable for application in severe and

I Display Plate
04℉) sation of Moisture) et(3657.6m)
40°F) sation of Moisture∋
, MPRII , TUV Argentina S-mark, China

Wireless Radio Station (MHRD-IHG/IHN-A)



With MH Company's cooperation with well-known foreign manufacturers, Customized Industrial Wireless Radio Station provides wireless solution for factory network and field equipment automation. Our industrial-grade wireless radio station can adapt to severe industrial environments. They have characteristics of being sturdy, durable and convenient to implement. It is well proven and suited for industrial environments. RADIUS safety function, central management with safety policy distribution, offers VLAN with segmented management network data and data optimization can also be added to industrial wireless radio station.

MHRD-IHG-A series is an industrial hot-spot radio station with large power rating: The frequency range is 2.4 GHz. Output rating can reach up to 250 mW and it is suitable for industrial applications fields with severe environments.

MHRD-IHN-A series industrial wireless communication radio station: It supports doublechannel of 2.4 GHz and 5.8 GHz. It uses MIMO antenna system. Up to 3 sets of antenna can be supported. Wireless transmitting rate can reach up to 300Mbps.

MH-PLC



It is PLC control system with the fastest hardware speed in the world. Super large memory is integrated in CPU. It can work without memory cards. CPU offers integrated Ethernet connector, RJ45 used in PG/OP communication. It can be used by mixing with Siemens modules in one rack shelf. PROFIBUS-DP master station and PTP interfaces can be switched. It is particularly appropriate for from medium scaled to large scaled applications.

Analog Signal Transmitter



AST Analog Signal Transmitter provides safe, high-quality signals by transforming and transmitting, electrically isolated and coupled analog signals accurately. It is usually used in transmitting three-phase current or voltage signals to DC signals.

Hoist Load Limiter/Torque Limiter



superior to the peer products.

arms, gyration strutting, etc.

Signal Logic Contoller



MSLC Signal Logic Contoller is an intelligent electronic unit with signal input check andoutput control functions, and logic control function between input signals and output signals can be flexibly customized. This product is similar to an integrated PLC. It can be widely used in signal collection, signal processing, logic control and PROFIBUS DP network construction and communication on industrial sites.

Digital Motor Over-speed Protector



Digital Motor Over-speed Protector, researched and developed independently by MH, is applied for protect against over-speed of motor in crane hoist mechanism, especially in the refurbishment of crane uninstalled over-speed switches or in tight condition.

Other Equipment-Introduction

Hoist load Limiter (HWL) is a smart monitor and protection device against overload of various lifting equipment. It is modularized designed which is flexibly suitable for new cranes and refurbishment. Its characteristics such as reliability, accuracy, convenient operation, etc, are

Torque Limiter is an overload protection device to ensure crane safety operation. It controls the crane not to exceed stabile torque effectively and protects the structure parts' such as

Anemoscope



Special designed and installed for crane applications.

Rotation Limiter



Rotation Limiter is specially designed and installed to slewing bean as a limit.

Anti-collision Device



Antic (MH Anti-collision Device) is the sophisticated laser device with LCD to avoid collision between cranes.

Stroke Limiter



Stroke Limiter is an electrical switch to limit travel motion extreme position. When the travel mechanism gets to the extreme place, it works and output signals to control layer equipment.

Hoist Brake Monitor



control layer equipment.

Absolute Encoder



Well selected and installed for crane applications.

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Other Equipment-Introduction

Hoist Brake Monitor detects mechanical parts action of the motor brake and outputs signals to

Other Equipment-Introduction

Video System

Video System helps crane operator to master the crane key parts operation status, which can avoid safety accident in the degradable visual conditions. The video of crane operating process is recorded for review analysis. Standard Crane Video System is composed of video camera, optical transmitter and receiver, hard disk video recorder, frequency divider, monitor, keyboard, etc.

High Speed Dome Camera



It shoots the video around hoisting place. Its functionalities such as manual focus facility, remote rotational camera lens and built-in high speed digital camera provide high quality video pictures, which help the drivers track the hoisting status conveniently.

Control Keyboard



Driver controls High Speed Dome by the 3 D rocker in the keyboard for observing the hoisting movement. The numbers in the keyboard are used to select High Speed Domes. It meets hoisting observation requirements of National Standard GB/T28264-2012 5.2.1 "Video System".

Fixed Spy Camera



Fixed Spy Camera shoots the video of long-travel movement period which help the driver to observe the obstacle or passenger on the railway for safety operation. It provides daytime color mode (in the daytime) and night time black and white mode. It meets traveling observation requirements in National Standard GB/T28264-2012 5.2.1 "Video System".

Optical Transmitter and Receiver



Optical Transmitter and Receiver is used to transmit video image and control keyboard instruction in long distance. It adopts all digital and no compress transmission mode by optical cable to overcome the defects such as poor stability, easy to be disturb and etc via coaxial cable.

Digital Harddisk Recorder



Digital Harddisk Recorder compresses the video images into digital format and keeps it in the harddisk for 72 hours. Customers can check real-time or history videos shoot by different cameras via IE or client software by direct internet connection with harddisk recorder. It meets traveling observation requirements in National Standard GB/T28264-2012 6.8.6 "Video Storage Time".

Four screen slicer



Four screen slicer compresses four video signals into one video signal and outputs to monitor through 4 slice method by picture compressing and digital processing techniques.

Monitor Screen



and TV set



Other Equipment-Introduction

Monitor screen displays the video images shoot by fore end cameras. Its characteristics such as image definition, color fidelity and stability, are superior to traditional displayer

Qualifications and Certifications



www.mhgco.com



MHCIMS