

Weintek × **CODESYS**

All-in-One Control: From HMI to PLC

■ Weintek HMI + CODESYS SoftPLC

Weintek Integrates CODESYS into HMIs: All-in-One Control for HMI + PLC + I/O Solutions

Sensor/Motor Drive





Weintek Remote I/O Module







cMT X/cMT Series HMI with Built-in SoftPLC





User

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Why CODESYS SoftPLC? Prepared value - Electricing size: Code Membrany Code Membrany Code Membrany Code Membrany

- CODESYS, the world's most widely used SoftPLC platform, supports all five IEC 61131-3 languages and integrates PLC programming, object-oriented development, visualization, motion control, and safety into one intuitive interface.
- Its open architecture and strong extensibility enable seamless integration with major industrial protocols and easy adaptation to diverse automation devices and controllers. This scalable control solution is key to smart manufacturing.
- CODESYS stands as the global SoftPLC market leader, and SoftPLC solution is set to grow steadily, securing even greater market share in the years ahead.

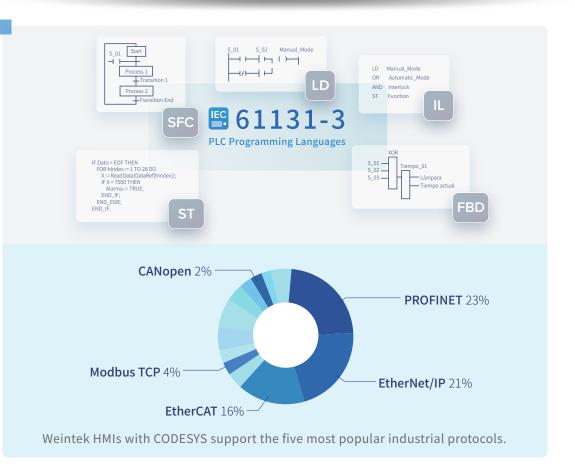
Key Applications:

Factory Automation

Production Automation Mobile Automation

Building Automation

Energy Automation



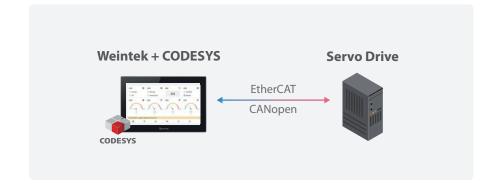
Advantages of Weintek + CODESYS Solution

1. Powerful Development Platform for Simplified Integration

CODESYS provides a universal, open development environment that supports over 500 controller brands and thousands of devices, enabling logic control on a single platform. Combined with Weintek EasyBuilder Pro for HMI graphic design, it allows developers to greatly reduce time and cost for integration.

2. Software-Defined Architecture for Enhanced Control Capabilities

By fully software-enabling traditional PLC functions, CODESYS turns Weintek HMIs into powerful control centers—no extra PLC hardware needed. With native support for EtherCAT, CANopen, and Modbus TCP, it delivers seamless communication, direct servo control, and modular, high-performance motion



3. All-in-One Solution for Automation and HoT Applications

Beyond programming, visualization, and communication, CODESYS combined with Weintek's Weincloud enables remote monitoring and cloud connectivity—accelerating smart manufacturing and IIoT deployment

4. Proven Control Foundation for Global Reliability

Trusted by hundreds of thousands of developers worldwide and adopted by leading manufacturers, CODESYS combined with Weintek iR Series Remote I/O modules delivers a stable, scalable control architecture for modern automation.

Dual OS Architecture for Versatile Performance

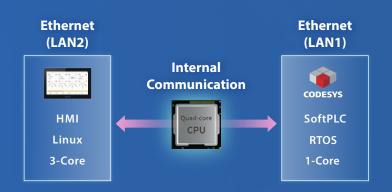
Independent Operating Systems: Linux + RTOS

An HMI with dual functionality of display and PLC control. Thanks to its independent operating system design, even if one side fails, the other can continue running normally.



Internal Communication Architecture

Direct internal pass-through communication between the HMI and PLC via EasyBuilder Pro enables the HMI to control end machinery and equipment



iR Series Key Features of Remote I/O Modules

The iR Series offers couplers, digital I/O, and analog I/O modules with the performance and reliability to meet market demands.

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Weintek Coupler

iR-ETN (Modbus TCP / EtherNet/IP)

Modbus TCP: The classic protocol for industrial devices and general manufacturing automation.

EtherNet/IP: Built on TCP/IP and CIP for strong compatibility, multi-topology support, and seamless IT integration—widely adopted in factory automation.

iR-COP (CANopen Slave)

Simple structure with excellent real-time performance, ideal for embedded systems and high-reliability equipment such as medical and automotive devices.

iR-ECAT (EtherCAT Slave)

Ultra-low latency with tight synchronization, supporting multi-node daisy-chain topologies—perfect for high-speed, precision motion control, robotics, and automated assembly.

3rd Party PROFINET Coupler

High-speed real-time networking with multi-topology support and large-device capacity, suited for complex, high-speed automation systems.

Digital Module

Digital Input: Sink & Source

Digital Output: Sink, Source & Relay

Analog Module

Wide Voltage & Current Range:

Weintek I/O Module

Voltage: -10 to 10 V Current: -20 to 20 mA

Temperature

Thermocouple (TC) and RTD Type Compatibility

User-defined Table Support

Motion Control

Single-Axis Motion Control Support

Exclusive Function Blocks











Third-party Devices

Key Benefits



Centralized Control with Visual Interface

Industry Applications

agriculture and environmental monitoring.

Smart Farm Irrigation Systems

The Smart Farm Irrigation System is a mobile intelligent irrigation solution

built with Weintek cMT X Series HMI and CODESYS SoftPLC. Using Modbus TCP/IP, it controls iR Series I/O modules (iR-ETN, DI, DQ, AM). Featuring modular design, high flexibility, and smart control, it is ideal for precision



Smart and Efficient Irrigation via Closed-Loop Control



Remote Management with Instant Alerts



Modular I/O Design for Easy and Flexible Expansion

■ Solutions

· cMT X HMI + CODESYS SoftPLC

The cMT X HMI provides high-performance control with an intuitive graphical interface.

Modbus TCP/IP Integration + iR-ETN Coupler

iR-ETN serves as a Modbus TCP/IP slave to aggregate DI, DQ, and AM module data for the master.

Sensors + Irrigation Loop Control

DI modules read soil moisture valve on/off signal and flow-switch signals; AM modules capture analog data (e.g., humidity %, pressure); DQ modules drive valves and pumps.

Remote Monitoring + Data Logging

The cMT X HMI supports EasyAccess 2.0, multi-protocol databases, and MQTT/OPC UA to export field data to the cloud or central SCADA.

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Industry Applications

Water-Cooled Pressure Test Stations

An automated leak and pressure testing system was developed for water-cooled components in server, automotive, and high-power equipment production. Integrating Weintek HMI with CODESYS SoftPLC, the solution ensures precise control and monitoring, addressing challenges like parameter variability, scattered data, and human error to enhance testing efficiency and reliability.

Industry Applications

Cleanroom Fan Filter Unit Monitoring Systems

Designed for pharmaceutical, semiconductor, and precision industries, this cleanroom FFU and monitoring solution leverages Weintek HMI with CODESYS SoftPLC to optimize environmental control. It reduces energy waste, enables centralized monitoring, and supports remote maintenance—boosting efficiency, stability, and smart energy management.

Key Benefits



Streamlined Test Automation for Higher Efficiency



Integrated Data Logging with Traceable Reporting



Flexible Configuration for Seamless Equipment Integration



Multi-Level Access with Visual Alerts for Error Prevention

Solutions

· cMT X HMI + Bidirectional Communication

The visual interface exchanges test data with the SoftPLC in real time and supports trend display, alarms, and logging.

CODESYS SoftPLC + EtherCAT Control

The controller serves as an EtherCAT master to control iR modules with high-speed, real-time response.

· Automated Test Logic + Alarm Handling

The PLC executes staged pressure control and triggers NG alarms when faults are detected.

· Sensor Integration + HMI Data Logging

The DI/AI modules collect sensor signals, while the HMI performs threshold checks and records results.

Key Benefits



EC Fans with Closed-Loop Control for Energy Saving



Remote Monitoring with Historical Data Management



Auto Alerts and Fan Calibration for Cleanroom Stability



Graphical HMI with Role-Based Access for Easy Maintenance

■ Solutions

· Centric Control + CODESYS SoftPLC

The cMT X HMI enables multi-zone FFU monitoring and control via touchscreen interface.

· Closed-Loop Feedback + Modbus Monitoring

The system reads airflow, differential pressure, and RPM for real-time auto calibration.

Integrated Sensing + Data Logging

Temperature, humidity, pressure, and particle data are fed into the HMI for alerts and records.

· Adaptive Energy Management + EC Motor Control

Smart control dynamically adjusts fan speed and air exchange rates for optimized efficiency.

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iR Series Specifications

IR Series Spec		'D ETAL	'D-600	'D 5645
Coupler Modu		iR-ETN	iR-COP	iR-ECAT
Expansion I/O Module	Number of Bus Terminals	Depends on Power Co	nsumption	
	Digital Input Point	Max. 256		
	Digital Output Point	Max. 128		
	Analog Input Channel	Max. 64		
	Analog Output Channel	Max. 64		
Data Transfer Rate		10/100 Mbps	50k~1 Mbps	100 Mbps
Max. Number of TCP/IP Connections	5	8 Connections	-	-
Protocol		Modbus TCP/IP Server EtherNet/IP adapter	r, CANopen Slave	EtherCAT Slave
Isolation		Network to Logic Isolation : Yes	CAN bus Isolation: Yes	Network to Logic Isolation : Yes
Power	Power Supply	24 VDC (-15%/+20%)		
	Power Consumption	Nominal 100mA@24V	/DC	
	Current for Internal Bus	Max 2A@5VDC		
	Current Consumption	220mA@5VDC	170mA@5VDC	270mA@5VDC
	Power Isolation	Yes		
	Back-up Fuse	≤ 1.6A Self-recovery		
Specification	PCB Coating	Yes		
	Enclosure	Plastic		
	Dimensions WxHxD	27 x 109 x 81 mm		
	Weight	Approx. 0.15 kg		
Environment	Mount	35mm DIN rail mount	ing	
Environment	Protection Structure Storage Temperature	IP20 -20° ~ 70° C (-4° ~ 158	8° F)	
	Operating Temperature	0° ~ 55° C (32° ~ 131°		
	Relative Humidity	10% ~ 90% (non-cond		
	Altitude	3,000 m	.csiriy,	
	Vibration Endurance	10 to 25Hz (X, Y, Z dire	ection 2G 30 minutes)	
Certification	CE	CE marked		
	UL	cULus Listed		

oupler Module		iR-ETN40R	iR-ETN40P
Expansion I/O Module	No. of Bus Terminals	Depends on Power Consumption	
ļ ,	Digital Input Point	Max. 224	
	Digital Output Point	Max. 112	
	Analog Input Channel	Max. 64	
	- ·		
C	Analog Output Channel Data Transfer Rate	Max. 64	
Communication Interface Specifications		10/100 Mbps	
	Max. Number of TCP/IP Connections	8 connections	
	Protocol	Modbus TCP Server, EtherNet/IP ad	lapter
	Network to Logic Isolation	Yes	
	No. of Ports	1	
Digital Output	Total Number of Outputs	16	
	Output Type	Relay	Source
	Output Voltage	250VAC/30VDC	11~28VDC
	Output Current	2A per channel (Max 8A)	0.5A per channel (Max 4A)
	Response Time	10 ms	OFF->ON: 100 μs, ON->OFF: 600 μs
	Isolation	Yes, electromagnetic isolation	Yes, optocoupler isolation
High speed Output	Total Number of Outputs	0	2
High-speed Output	' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '		
	Output Type	N/A	Source
	Output Voltage	N/A	5VDC
	Output Current	N/A	50mA per channel
	Max. Output Frequency	N/A	40KHz
	Isolation	N/A	Yes, optocoupler isolation
Digital Input	Total Number of Inputs	24	
	Isolation	Yes, optical isolation	
General Input	Total Number of Inputs	20	
	Input Type	Sink or Source	
	Logic 1 Input Voltage	15~28 VDC	
	Logic 0 Input Voltage	0~5 VDC	
	Response Time	OFF->ON: 5 ms, ON->OFF: 1 ms	
Official and a self-frame of	·		
High-speed Input	Total Number of Inputs	4	
	Input Type	SINK INPUT (PNP)	
	Logic 1 Input Voltage	15~28VDC	
	Logic 0 Input Voltage	0~5VDC	
	Max. Input Frequency	20KHz	
Power	Power Supply	24 VDC (-15%/+20%)	
	Power Consumption	Nominal 255mA@24VDC, Max. 540mA@24VDC	Nominal 100mA@24VDC, Max. 530mA@24VDC
	Current for-Internal Bus	Max. 2A@5VDC	
	Current Consumption	520mA@5VDC	350mA @ 5VDC
	Electrical Isolation	Logic to Field Power Isolation: Yes	
	Back-up Fuse	≤ 1.6A Self-recovery	
Specification	PCB Coating	Yes	
opecinication:	Enclosure	Plastic	
	Dimensions WxHxD	64x 109 x 81 mm	
	Weight	Approx. 0.27 kg	
	Mount	35mm DIN rail mounting	
Environment	Protection Structure	IP20	
	Storage Temperature	-20° ~ 70° C (-4° ~ 158° F)	
	Operating Temperature	-10° ~ 60° C (14° ~ 140° F)	
	Relative Humidity Altitude	10% ~ 90% (non-condensing) 3,000 m	
		10 to 25Hz (X, Y, Z direction 2G 30 r	minutes)
Cortification	Vibration Endurance	. , ,	minutes)
Certification	Vibration Endurance CE UL	CE marked CULus Listed	minutes)

Digital I/O	Module	iR-DI16-K	iR-DM16-P	iR-DM16-N	iR-DQ16-P	iR-DQ16-N	iR-DQ08-R
Input Logic		Sink or Source	Sink or Source	Sink or Source	N/A	N/A	N/A
Number of Inputs		16	8	8	0	0	0
Output Logic		N/A	Source	Sink	Source	Sink	Relay
Number of Outputs		0	8	8	16	16	8
Current Consumption		83mA@5VDC	130mA@5VDC	130mA@5VDC	196mA@5VDC	205mA@5VDC	220mA@5VDC
HIGH Level Input Voltage		15~28VDC	15~28VDC	15~28VDC	N/A	N/A	N/A
LOW Level Input Voltage		0~5 VDC	0~5 VDC	0~5 VDC	N/A	N/A	N/A
Output Voltage		N/A	11~28VDC	11~28VDC	11~28VDC	11~28VDC	250VAC/ 30VDC
Output Current		N/A	0.5A per channel (Max 4A)	0.5A per channel (Max 4A)	0.5A per channel (Max 4A)	0.5A per channel (Max 4A)	2A per channel (Max 8A)
Isolation	plation		Input: Optical Isolation Output: Optical Isolation	Input: Optical Isolation Output: Optical Isolation	Input: N/A Output: Optical Isolation	Input: N/A Output: Optical Isolation	Input: N/A Output: Electromagnetic Isolation
Specification	Enclosure	Plastic					
	Dimensions WxHxD	27 x 109 x 81 m	m				
	Weight	Approx. 0.12 kg	Approx. 0.12 kg	Approx. 0.12 kg	Approx. 0.12 kg	Approx. 0.12 kg	Approx. 0.13 kg
	Mount	35mm DIN rail	mounting				
Environment	Protection Structure	IP20					
	Storage Temperature	-20° ~ 70° C (-4° ~ 158° F)					
	Operating Temperature 0° ~ 55° C (32°		~ 55° C (32° ~ 131° F)				
	Relative Humidity 10		10% ~ 90% (non-condensing)				
	Altitude	3,000 m					
	Vibration Endurance	10 to 25Hz (X, \	, Z direction 2G 30	minutes)			
Certification	CE	CE marked					
	UL	cULus Listed					

Input Logic Number of Inputs	Motion Control N	/lodule	_iR-	-PU01-P
Input Logic Number of Inputs Sink Input Differential Input 4 3 (A/B/Z phase)				
Number of Inputs Output Logic Number of Outputs HIGH Level Input Voltage LOW Level Input Voltage Input current Input Impedance Indicators Output Voltage Output Voltage Output Voltage Indicators Output Voltage Output Voltage Output Voltage Output Voltage Input Impedance Indicators Output Voltage Output Voltage Output Voltage Output Voltage Output Voltage Input Impedance Indicators Output Voltage Output Voltage Output Voltage Output Current Max. input frequency Max. Output frequency Number of Axis Specification PCB Coating Enclosure Dimensions WXHXD Weight Mount Environment Protection Structure Storage Temperature Operating Temperature Relative Humicity Altitude Vibration Endurance Certification CE Source Output Diffrential Output 4 2 (A/B phase) I 5~28 VDC - Imput State Ove ANSI Standards TIA/EIA-485-A 3 KQ - Red LED Input State O4 Neets the Requirements of ANSI Standards TIA/EIA-485-A 1- Axis Yes Specification 1- Axis Yes Samm DiN rail mounting IP20 -20° ~ 70° C (-4° ~ 158° F) O° ~ 55° C (32° ~ 131° F) 10% ~ 90% (non-condensing) 3,000 m 10 to 25Hz (X, Y, Z direction 2G 30 minutes) CE marked				
Output Logic Number of Outputs 4 2 (A/B phase) HIGH Level Input Voltage 15~28 VDC - LOW Level Input Voltage 0~5 VDC - Input Impedance Indicators 3 KΩ - Output Voltage 3 KΩ - Output Voltage 24VDC Meets the Requirements of ANSI Standards TIA/EIA-485-A Output Current Max. input frequency 50 mA 200KHz 2MHz Max. Output frequency 40KHz 2MHz 2MHz Number of Axis Specification PCB Coating Enclosure Dimensions WxHxD 1- Axis Yes Plastic 27 x 109 x 81 mm Approx. 0.12 kg 35mm DIN rail mounting Environment Protection Structure Storage Temperature Relative Humidity Altitude Vibration Endurance 10 to 25Hz (X, Y, Z direction 2G 30 minutes) Certification CE marked				•
Number of Outputs HIGH Level Input Voltage LOW Level Input Voltage Input current Input Impedance Indicators Output Voltage Output Voltage Output Voltage Output Voltage Output Voltage Output Voltage Output Current Max. input frequency Max. Output frequency Max. Output frequency Number of Axis Specification PCB Coating Enclosure Dimensions WXHxD Weight Mount Environment Protection Structure Storage Temperature Operating Temperature Relative Humidity Altitude Vibration Endurance Certification Verification PCB Coating Enclosure Dimensions WXHxD Approx. 0.12 kg 35mm DIN rail mounting IP20 -20° ~ 70° C (-4° ~ 158° F) 0° ~ 55° C (32° ~ 131° F) 10% ~ 90% (non-condensing) 3,000 m 10 to 25Hz (X, Y, Z direction 2G 30 minutes) CEE marked	Number of Inputs		4	3 (A/B/Z phase)
of Outputs HIGH Level Input Voltage LOW Level Input Voltage Input current Input Impedance Indicators Output Voltage O-5 VDC Input Impedance Indicators Output Voltage Output Current Max. input frequency Max. Output frequency Number of Axis Specification PCB Coating Enclosure Dimensions WxHxD Weight Mount Environment Protection Structure Storage Temperature Operating Temperature Relative Humidity Altitude Vibration Endurance Certification Input Impedance Indicators O -5 VDC - Input Meets the Requirements of ANSI Standards TIA/EIA-485-A Meets the Requirements of ANSI Standards TIA/EIA-485-A Weight 2MHz 1 - Axis Yes Plastic 27 x 109 x 81 mm Approx. 0.12 kg 35mm DIN rail mounting IP20 -20° ~ 70° C (-4° ~ 158° F) 0° ~ 55° C (32° ~ 131° F) 10% ~ 90% (non-condensing) 3,000 m 10 to 25Hz (X, Y, Z direction 2G 30 minutes) CE marked	Output Logic		Source Output	Differential Output
Input Voltage COW Level Input Voltage Input current Compared to the proof of the proo			4	2 (A/B phase)
Input Voltage Input current 24 VDC, 5 mA Meets the Requirements of ANSI Standards TIA/EIA-485-A			15~28 VDC	-
Input Impedance Indicators Output Voltage Output Voltage Output Current Max. input frequency Number of Axis Specification PCB Coating Enclosure Dimensions WxHxD Weight Mount Environment Protection Structure Storage Temperature Operating Temperature Operating Temperature Relative Humidity Altitude Vibration Endurance Certification I S KΩ - Red LED Input State Alexic Alexic Alexic Alexic Alexic TIA/EIA-485-A Meets the Requirements of ANSI Standards TIA/EIA-485-A Meets the Requirements of ANSI Standards TIA/EIA-485-A Meets the Requirements of ANSI Standards TIA/EIA-485-A In Alexic 24 VDC Meets the Requirements of ANSI Standards TIA/EIA-485-A Meets the Requirements of ANSI Standards TIA/EIA-485-A Meets the Requirements of ANSI Standards TIA/EIA-485-A 1- Axis Yes Plastic 27 x 109 x 81 mm Approx. 0.12 kg 35mm DIN rail mounting IP20 -20° ~ 70° C (-4° ~ 158° F) 0° ~ 55° C (32° ~ 131° F) 10% ~ 90% (non-condensing) 3,000 m 10 to 25Hz (X, Y, Z direction 2G 30 minutes) Certification CE CE marked			0~5 VDC	-
Indicators Output Voltage Output Voltage Output Current Max. input frequency Max. Output frequency Number of Axis Specification PCB Coating Enclosure Dimensions WxHxD Weight Mount Environment Protection Structure Storage Temperature Operating Temperature Relative Humidity Altitude Vibration Endurance Certification Red LED Input State 24VDC Meets the Requirements of ANSI Standards TIA/EIA-485-A Meets the Requirements of ANSI Standards TIA/EIA-485-A PO mA 200KHz 2MHz 1- Axis Yes Plastic 27 x 109 x 81 mm Approx. 0.12 kg 35mm DIN rail mounting IP20 -20° ~ 70° C (-4° ~ 158° F) 0° ~ 55° C (32° ~ 131° F) 10% ~ 90% (non-condensing) 3,000 m 10 to 25Hz (X, Y, Z direction 2G 30 minutes) CET maked	Input current		24 VDC, 5 mA	of ANSI Standards
Output Voltage Output Current Max. input frequency Max. Output frequency Number of Axis Specification PCB Coating Enclosure Dimensions WxHxD Weight Mount Environment Protection Structure Storage Temperature Operating Temperature Operating Temperature Relative Humidity Altitude Vibration Endurance Certification Meets the Requirements of ANSI Standards TIA/EIA-85-A Meets the Requirements of ANSI Standards TIA/EIA-85-A Meets the Requirements of ANSI Standards TIA/EIA-85-A 1- Axis Yes Plastic 27 x 109 x 81 mm Approx. 0.12 kg 35mm DIN rail mounting IP20 -20° ~ 70° C (-4° ~ 158° F) 0° ~ 55° C (32° ~ 131° F) 10% ~ 90% (non-condensing) 3,000 m 10 to 25Hz (X, Y, Z direction 2G 30 minutes) CET maked	Input Impedance		3 ΚΩ	-
Output Current Max. input frequency Max. Output frequency Number of Axis Specification PCB Coating Enclosure Dimensions WxHxD Weight Mount Environment Protection Structure Storage Temperature Operating Temperature Operating Temperature Relative Humidity Alfittude Vibration Endurance Certification Output Current 50 mA 200KHz 2MHz August 1- Axis Yes Plastic 27 x 109 x 81 mm Approx. 0.12 kg 35mm DIN rail mounting 1P20 -20° ~ 70° C (-4° ~ 158° F) 0° ~ 55° C (32° ~ 131° F) 10% ~ 90% (non-condensing) 3,000 m 10 to 25Hz (X, Y, Z direction 2G 30 minutes) CET marked	Indicators		Red LED Input Sta	te
Max. Output frequency Max. Output frequency Number of Axis Specification PCB Coating Enclosure Dimensions WxHxD Weight Mount Environment Protection Structure Storage Temperature Operating Temperature Relative Humidity Altitude Vibration Endurance Certification 200KHz 2MHz 1- Axis Yes Plastic 27 x 109 x 81 mm Approx. 0.12 kg 35mm DIN rail mounting IP20 -20° ~ 70° C (-4° ~ 158° F) 0° ~ 55° C (32° ~ 131° F) 10% ~ 90% (non-condensing) 3,000 m 10 to 25Hz (X, Y, Z direction 2G 30 minutes) CE marked	Output Voltage		24VDC	of ANSI Standards
Number of Axis Specification PCB Coating Enclosure Dimensions WxHxD Weight Mount Environment Protection Structure Storage Temperature Operating Temperature Relative Humidity Altitude Vibration Endurance Certification A0KHz 2MHz 1- Axis Yes Plastic 27 x 109 x 81 mm Approx. 0.12 kg 35mm DIN rail mounting IP20 -20° ~ 70° C (-4° ~ 158° F) 0° ~ 55° C (32° ~ 131° F) 10% ~ 90% (non-condensing) 3,000 m 10 to 25Hz (X, Y, Z direction 2G 30 minutes) CE marked	Output Current		50 mA	
Number of Axis Specification PCB Coating Enclosure Dimensions WxHxD 27 x 109 x 81 mm Approx. 0.12 kg 35mm DIN rail mounting IP20 -20° ~ 70° C (-4° ~ 158° F) Operating Temperature Coperating Temperature Relative Humidity Altitude Vibration Endurance University 10 to 25Hz (X, Y, Z direction 2G 30 minutes) Certification CE CE marked 1	Max. input frequency		200KHz	2MHz
Specification PCB Coating Enclosure Dimensions WxHxD Weight Mount Environment Protection Structure Storage Temperature Operating Temperature Relative Humidity Altitude Vibration Endurance Certification PCB Coating Pyes Plastic 27 x 109 x 81 mm Approx. 0.12 kg 35mm DIN rail mounting P20 -20° ~ 70° C (-4° ~ 158° F) 0° ~ 55° C (32° ~ 131° F) 10% ~ 90% (non-condensing) 3,000 m 10 to 25Hz (X, Y, Z direction 2G 30 minutes) CE marked	Max. Output frequency	′	40KHz	2MHz
Enclosure Dimensions WxHxD Weight Mount Environment Protection Structure Storage Temperature Operating Temperature Relative Humidity Altitude Vibration Endurance Certification Environment Plastic 27 x 109 x 81 mm Approx. 0.12 kg 35mm DIN rail mounting 1P20 -20° ~ 70° C (-4° ~ 158° F) 0° ~ 55° C (32° ~ 131° F) 10% ~ 90% (non-condensing) 3,000 m 10 to 25Hz (X, Y, Z direction 2G 30 minutes) CE marked	Number of Axis		1- Axis	
Dimensions WxHxD 27 x 109 x 81 mm Approx. 0.12 kg 35mm DIN rail mounting IP20 Storage Temperature Operating Temperature COperating Temperature How with the composition of the compositio	Specification	PCB Coating	Yes	
Weight Mount 35mm DIN rail mounting 1P20 1P20 2P20 2P3		Enclosure	Plastic	
Mount Protection Structure Storage Temperature Operating Temperature Relative Humidity Altitude Vibration Endurance Certification Mount 35mm DIN rail mounting IP20 -20° ~ 70° C (-4° ~ 158° F) 0° ~ 55° C (32° ~ 131° F) 10% ~ 90% (non-condensing) 3,000 m 10 to 25Hz (X, Y, Z direction 2G 30 minutes)		Dimensions WxHxD	27 x 109 x 81 mm	
Environment Protection Structure Storage Temperature Operating Temperature Relative Humidity Altitude Vibration Endurance Certification Protection Structure Storage Temperature -20° ~ 70° C (-4° ~ 158° F) -20° ~ 70° C (-4°		Weight	Approx. 0.12 kg	
Storage Temperature Operating Temperature Relative Humidity Altitude Vibration Endurance Certification Storage Temperature -20° ~ 70° C (-4° ~ 158° F) 0° ~ 55° C (32° ~ 131° F) 10% ~ 90% (non-condensing) 3,000 m 10 to 25Hz (X, Y, Z direction 2G 30 minutes) CE marked		Mount	35mm DIN rail mounting	
Operating Temperature Relative Humidity Altitude Vibration Endurance Certification O° ~ 55° C (32° ~ 131° F) 10% ~ 90% (non-condensing) 3,000 m 10 to 25Hz (X, Y, Z direction 2G 30 minutes) CE marked	Environment	Protection Structure	IP20	
Relative Humidity Altitude Vibration Endurance Certification Relative Humidity 3,000 m 10 to 25Hz (X, Y, Z direction 2G 30 minutes) CE marked		Storage Temperature	, ,	
Altitude 3,000 m Vibration Endurance 10 to 25Hz (X, Y, Z direction 2G 30 minutes) Certification CE CE marked		Operating Temperature		
Vibration Endurance 10 to 25Hz (X, Y, Z direction 2G 30 minutes) Certification CE CE marked		Relative Humidity	10% ~ 90% (non-	condensing)
Certification CE CE marked		Altitude	3,000 m	
		Vibration Endurance	10 to 25Hz (X, Y, Z	direction 2G 30 minutes)
UL cULus Listed	Certification	CE	CE marked	
		UL	cULus Listed	

Analog I/O Module		iR-AI04-VI	iR-AM06-VI	iR-AQ04-VI	
Number of Analog Inputs		4 (±10V/ ±20mA)	4 (±10V/ ±20mA)	0	
Number of Analog outputs		0	2 (±10V/ ±20mA)	4 (±10V/ ±20mA)	
Current Consumption		70mA@5VDC	70mA@5VDC	65mA@5VDC	
Analog Power Supply		24 VDC(20.4 VDC~28.8 VDC) (-15%~+20%)			
Specification	PCB Coating	Yes			
	Enclosure	Plastic			
	Dimensions WxHxD	27 x 109 x 81 mm			
	Weight	Approx. 0.12 kg			
	Mount	35mm DIN rail mounting			
Environment	Protection Structure	IP20			
	Storage Temperature	-20° ~ 70° C (-4° ~ 158° F)			
	Operating Temperature	0° ~ 55° C (32° ~ 131° F)			
	Relative Humidity	10% ~ 90% (non-condens	ing)		
	Altitude	3,000 m			
	Vibration Endurance	10 to 25Hz (X, Y, Z direction	n 2G 30 minutes)		
Certification	CE	CE marked			
	UL	cULus Listed			

Temperature Mo	dule	iR-AI04-TR
Number of Input Chan	nels	4 (RTD/Thermocouple)
Current Consumption		65mA@5VDC
Analog Power Supply		24 VDC(20.4 VDC~28.8 VDC) (-15%~+20%)
Specification	PCB Coating	Yes
	Enclosure	Plastic
	Dimensions WxHxD	27 x 109 x 81 mm
	Weight	Approx. 0.12 kg
	Mount	35mm DIN rail mounting
Environment	Protection Structure	IP20
	Storage Temperature	-20° ~ 70° C (-4° ~ 158° F)
	Operating Temperature	0° ~ 55° C (32° ~ 131° F)
	Relative Humidity	10% ~ 90% (non-condensing)
	Altitude	3,000 m
	Vibration Endurance	10 to 25Hz (X, Y, Z direction 2G 30 minutes)
Certification	CE	CE marked
	UL	cULus Listed

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