RAYA TECHNOLOGY



Your Gateway to Smart Automation

Catalog 2026

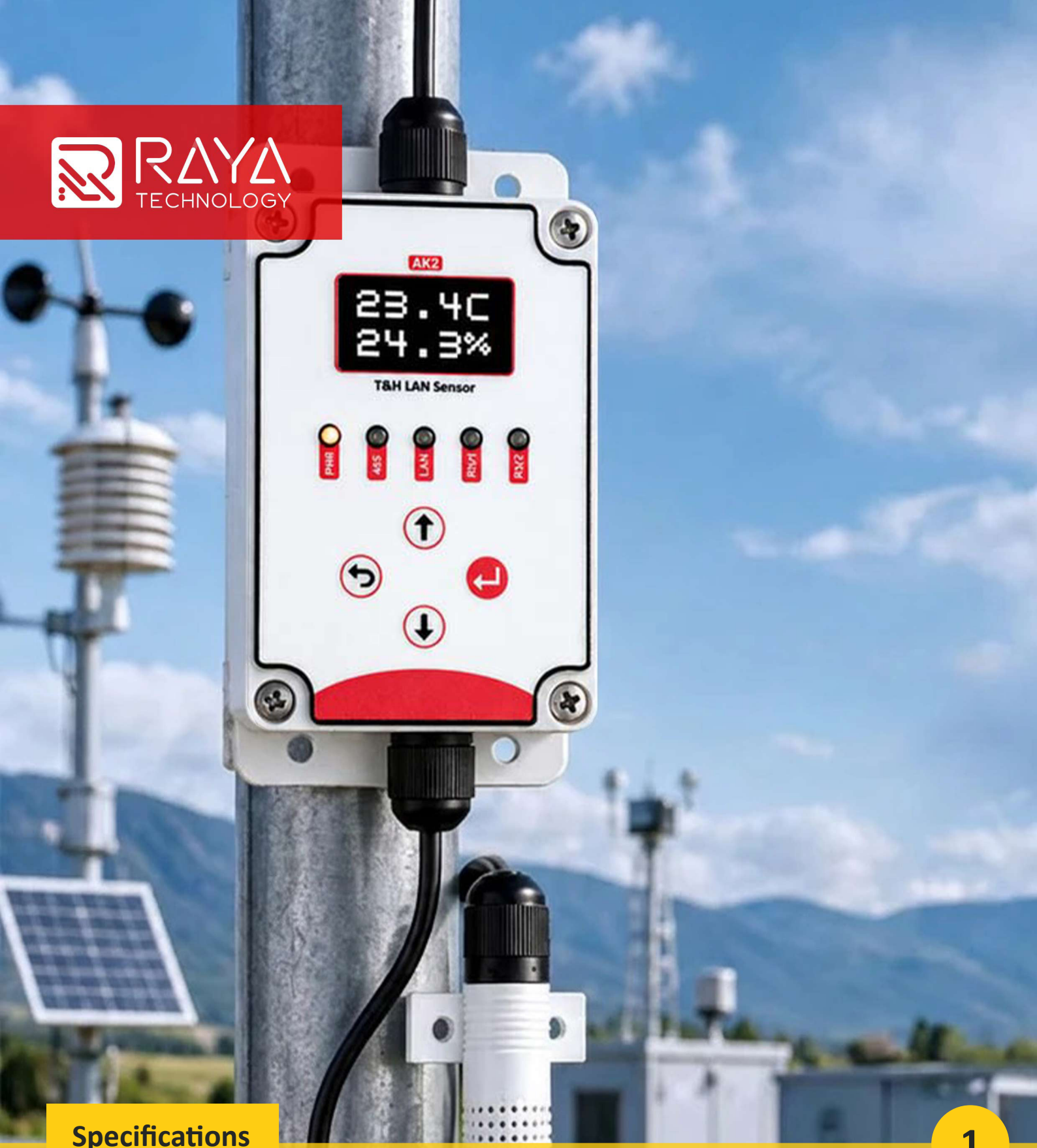
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Chapter 1:

Products
Modbus TCP (Ethernet)

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Specifications

Product Name: Temp and Humidity Sensor Model AK2

Application: Accurate measurement of temperature and humidity in industrial and building environments

Communication Protocol: Modbus RTU (RS485) and Modbus TCP (Ethernet)

Manufacturer: RAYA Technology - iCMAN

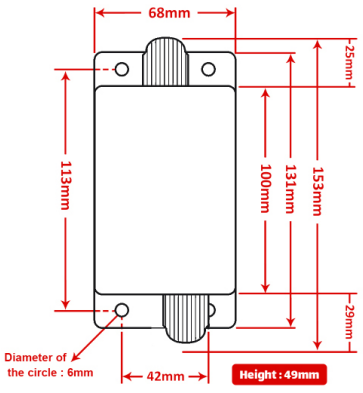
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Features

* Precise Measurement: High-precision temperature and humidity measurement
* Standard Communication Protocol: RS485 interface with Modbus RTU software protocol implementation and support for communication on this network
* Standard Communication Protocol: Ethernet network or LAN cable with support for Modbus TCP, JSON, and HTTP software protocols
* Standard Communication Protocol: SNMP (optional / customized)
* Easy Installation: Designed for wall or duct mounting
* High Reliability: Stable performance under diverse environmental conditions
* Rugged Design: Suitable for industrial environments with harsh conditions
* By adding the DRG01 module, which is also available on the website, installation in electrical panels and on DIN rails is possible.

General Specifications		
Dimensions	153 × 68 × 49 mm	
Enclosure Material	ABS	
Installation	Wall-mounted (with screws or mounting bracket)	
Input Cable	0.5 meters of 8-core stranded shielded cable with a thickness of 0.25 (Power + RS-485)	
Sensor Protection Cover	Made of ABS for the temperature and humidity sensor (the total length of the cable and cover is 30 cm)	
IP	Main Device Enclosure	IP54 standard
	Sensor Protective Sheath	IP61



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Technical Specifications	
Temperature Measurement Range	-20 to +85 °C
Humidity Measurement Range	0 to 100%
Temperature Measurement Accuracy	±0.3 °C
Humidity Measurement Accuracy	±3% RH
protocol	Supports Modbus TCP protocol over LAN
protocol	Supports Modbus RTU protocol over RS-485
web service	Professional web service for configuration via browser
Relay Output	Two relay outputs, 1 amp each
Input Voltage	24 V

Thermostatic Mode

When the relays are set based on ambient temperature or humidity, they operate within a defined range: one value is received as the Max temperature—for example, 25°C—and another as the Min temperature—for example, 23°C. Based on this information, the control range becomes 23°C to 25°C. The same configuration can be applied to humidity.

Note: The difference between these two values cannot be less than 1°C for temperature mode and less than 5% for humidity mode.

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Specifications

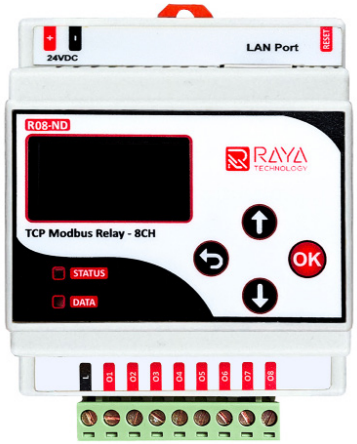
Product Name: Network Relay Output Module 8-Channel Model R08-ND

Application: Used for remote control and management of industrial and electrical equipment over a network using the Modbus TCP/IP protocol.

Communication Protocol: ModbusTCP/IP , JSON , HTTP , Metrics

Manufacturer: RAYA Technology - iCMAN

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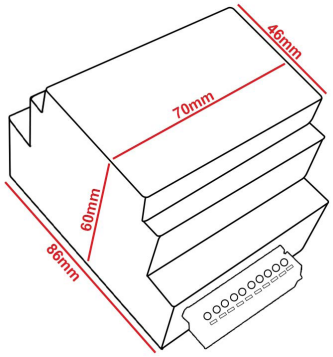


Applications

* Industrial Automation Systems: Control and monitoring of factory equipment and production lines.
* Electrical and Safety System Monitoring: Used in power distribution panels, fire alarm, and suppression systems.
*Remote Equipment Control: Managing industrial machinery via network and internet.
* Greenhouse and Controlled Environment Automation: Monitoring and controlling sensors, vents, and ventilation.
* Building Management Systems (BMS): Intelligent control of lighting, ventilation, and electrical equipment.

General Specifications	
Dimensions	86 × 70 × 60 mm
Enclosure Material	ABS
Installation	DIN Rail

Technical Specifications	
Supports Modbus TCP Commands	F01, F03, F05, F06
Network Interface	Hardware LAN module for stable communication
Number of Outputs	8 relay outputs
Communication Protocol	ModbusTCP/IP , JSON , HTTP , Metrics
Network Security	IP filtering for security settings
Status Display	Live status indication of relays
Configuration	Settings adjustable via device menu and web service
By adding the DRG01 module, which is also available on the website, installation in electrical panels and on DIN rails is possible.	





Specifications

Product Name: 8-Channel Network Digital Input Module Model R80-ND

Application: Used for receiving and monitoring digital inputs from industrial equipment and automation systems over a network.

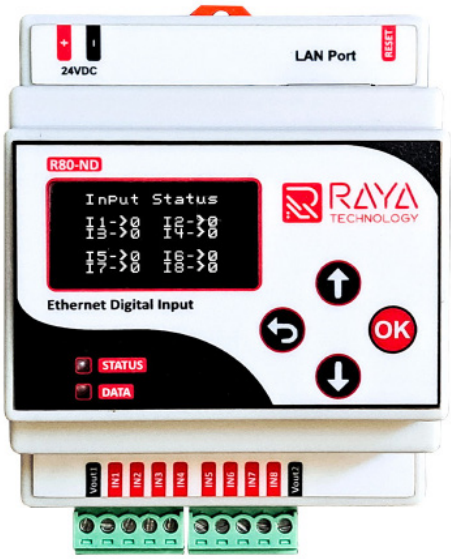
Communication Protocol: ModbusTCP/IP , JSON , HTTP , Metrics

Manufacturer: RAYA Technology - iCMAN

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Applications

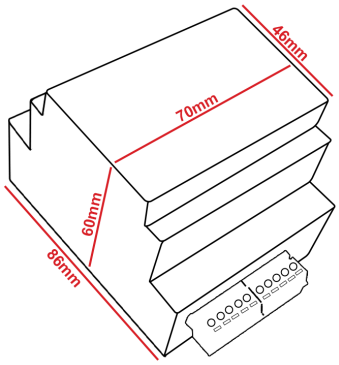
* Industrial automation systems
* Power and safety system monitoring
* Remote equipment control
* Greenhouse and controlled environment automation
* Building Management Systems (BMS)



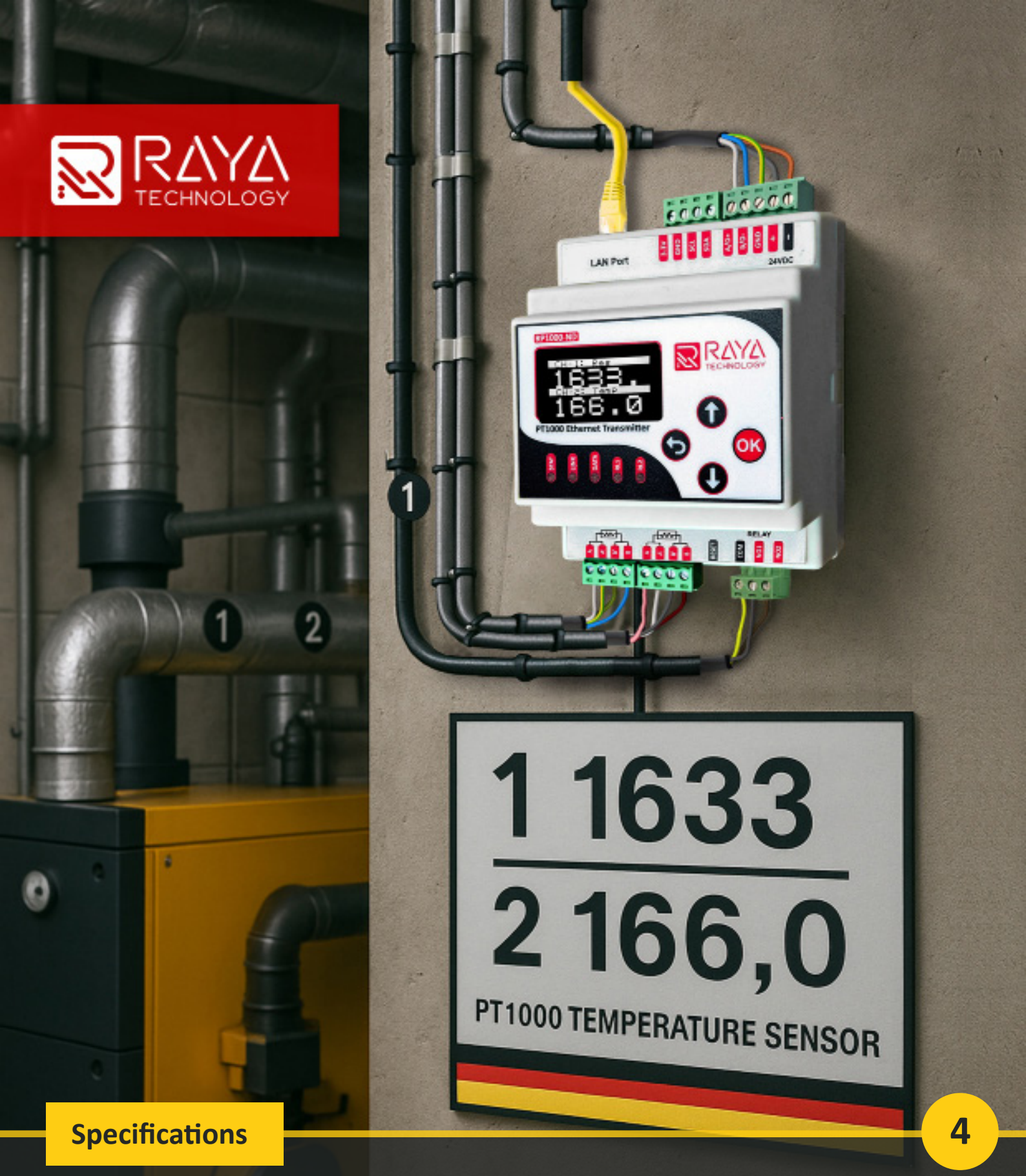
General Specifications	
Dimensions	86 × 70 × 60 mm
Enclosure Material	ABS
Installation	DIN Rail

Technical Specifications	
Supports Modbus TCP Commands	F02 , F03 , F06
Network Interface	Hardware LAN module for stable communication
Number of Inputs	8 digital input channels
Communication Protocol	ModbusTCP/IP , JSON , HTTP , Metrics
Network Security	IP filtering for security settings
Status Display	Real-time monitoring of digital inputs
Configuration	Settings adjustable via device menu and web service
voltage input	24V voltage input, suitable for industrial environments

By adding the DRG01 module, which is also available on the website, installation in electrical panels and on DIN rails is possible.



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Specifications

Product Name: Modbus PT1000 Temperature Transmitter Model RP1000-ND

Application: Used for measuring and monitoring the temperature of industrial equipment and processes over a network using the Modbus protocol.

Communication Protocol: Modbus RTU (RS485) and Modbus TCP (Ethernet)

Manufacturer: RAYA Technology - iCMAN

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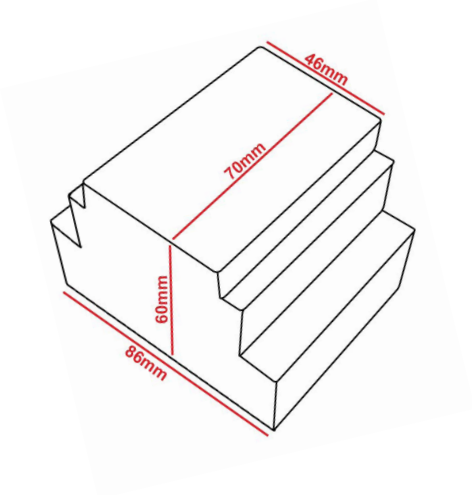


Applications

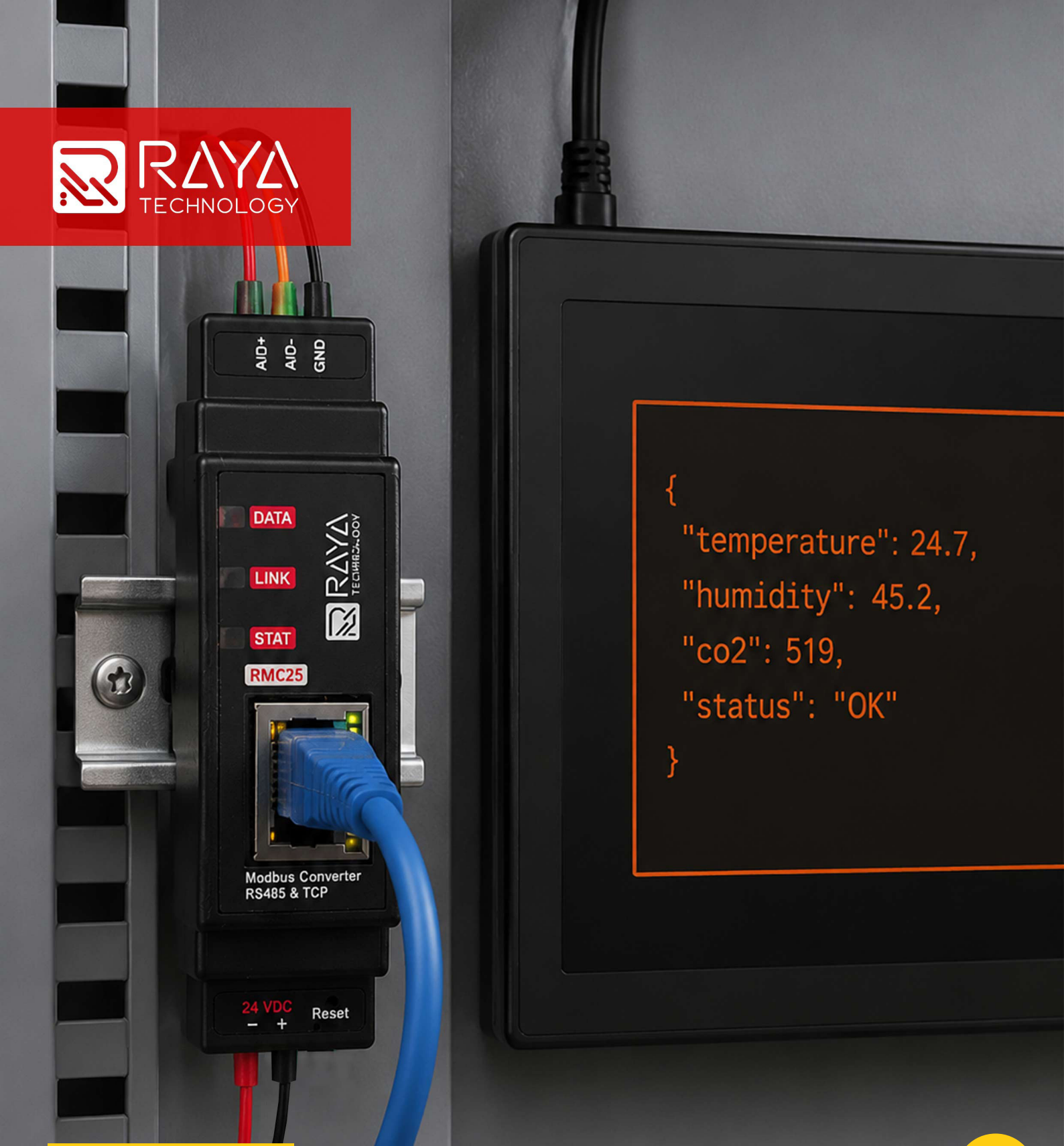
* Environmental temperature monitoring and control in the oil, gas, and petrochemical industries
* Greenhouse automation and intelligent ventilation systems
* Temperature monitoring in sensitive laboratory and medical equipment
* Temperature control and monitoring in furnaces, cold storage units, and industrial production lines
* Application in energy management systems and energy consumption optimization

General Specifications	
Dimensions	86 × 70 × 60 mm
Enclosure Material	ABS
Installation	DIN Rail
By adding the DRG01 module, which is also available on the website, installation in electrical panels and on DIN rails is possible.	

Technical Specifications
High-precision temperature measurement using PT1000 sensor across a wide temperature range
Internal transmitter capable of reading and transmitting data via Modbus RTU (RS485) and Modbus TCP (LAN)
Dual communication (RS485 and LAN) for greater flexibility in control systems
Software calibration for precise adjustment and correction of potential sensor errors
Modbus address, Baud rate, and other communication parameters are configurable
Industrial and rugged design, suitable for harsh environmental conditions and various SCADA, PLC, and HMI systems
This product is dual-channel



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Specifications

Product Name: RS-485 to JSON Converter Model RMC25

Application: It is used to connect Modbus devices to a network and transmit data to IoT servers or monitoring software via JSON or HTTP.

Communication Protocol: Modbus RTU (RS485), Modbus TCP (Ethernet) and JSON

Manufacturer: RAYA Technology - iCMAN

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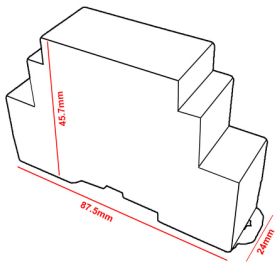
Description

This device is equipped with a Modbus RTU port based on RS485, enabling communication with various PLCs. It features 150 Modbus memory registers to convert data into JSON format. PLC, DCS, or SCADA engineers must store the desired data in registers 11 to 260 of the device. Then, when a user sends a JSON page request to the sensor via LAN cable using the HTTP protocol, the data is provided as output in JSON format.

One of the applications of this device is transferring RS٤٨٥ PLC network data to a website or software platform. The popularity of this converter lies in its support for the JSON protocol, which is widely used among developers and in the web world. Whenever there is a need to transmit various sensor or PLC register data over a network to a website and provide more professional services to clients, this converter becomes an essential choice.

General Specifications	
Dimensions	24 × 87.5 × 45.7 mm
Enclosure Material	ABS
Installation	DIN Rail

Technical Specifications
Support for JSON protocol over LAN
Support for Modbus TCP protocol over LAN
Support for Modbus RTU protocol over RS-485
Equipped with a professional web service for configuration via a browser



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Specifications

Product Name: Modbus Lux Meter Sensor – Model RL5-ND

Application: Measurement and monitoring of ambient light intensity with data transmission via the Modbus protocol for industrial, building, and smart system applications.

Communication Protocol: Modbus RTU (RS485), Modbus TCP (Ethernet)

Manufacturer: RAYA Technology - iCMAN

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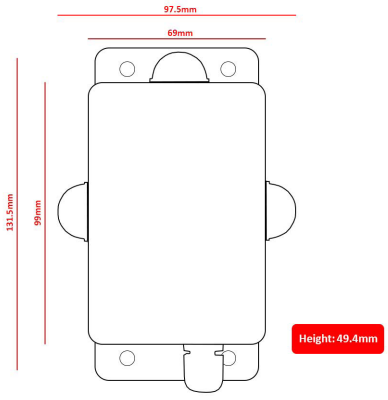
Description

The RL5-ND sensor uses a Japanese chip with a measurement range of 1 to 65,535 lux. The measurement accuracy is 1 lux, with a measurement error of 5%.

The lux meter sensor measures ambient light intensity in industrial and non-industrial environments such as greenhouses, poultry farms, livestock centers, server rooms, laboratories, cold storage facilities, office buildings, residential buildings, and more.

Technical Specifications
Support for Modbus TCP protocol over LAN
Support for Modbus RTU protocol over RS-485
Provides values of 3 physical sensors simultaneously along with the average of all three.
Measurement range: 1 to 65,535 lux
Measurement accuracy: 1 lux
Waterproof package with IP64 standard
Ability to automatically send logs to the server
Equipped with a professional web service for configuration via browser

General Specifications	
Dimensions	131.5*97.5*49.4 mm
Enclosure Material	ABS
Installation	DIN Rail / Wall-Mounted



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Specifications

Product Name: Laser Distance Sensor (50 meter) - Model RLD50-D

Application: Production line control, material level measurement, smart warehouse systems, transportation systems, access control.

Communication Protocol: Modbus RTU (RS485), Modbus TCP (Ethernet)

Manufacturer: RAYA Technology - iCMAN

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Description

The RLD50-D laser distance sensor is an industrial product from the RAYA Technology brand that measures object distances with high precision using laser technology. This device is equipped with a digital display that instantly shows the measured distance up to a maximum range of 50 meters.

Its user interface includes several control buttons for adjusting parameters, calibration, setting warning ranges, and communication protocols.

The sensor is installed as a separate module in a transparent enclosure and is connected to the control module via an industrial cable to ensure high precision and greater resistance to environmental noise.

Technical Specifications
Support for Modbus TCP protocol over LAN
Support for Modbus RTU protocol over RS-485
Equipped with a professional web service for configuration via browser
Accuracy at distances below 10 meters: ±3 cm
Accuracy at distances above 10 meters: ±6 cm

General Specifications	
Dimensions	153*63*49.2 mm
	63.8*57.7*35 mm
Installation	DIN Rail / Wall-Mounted
Enclosure Material	ABS

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Specifications

Product Name: Modbus RTU to Modbus TCP Bidirectional Converter, Model RMC11

Application: Connecting RS485-based Modbus RTU equipment to an Ethernet network and establishing communication with Modbus TCP systems.

Communication Protocol: Modbus RTU (RS485), Modbus TCP (Ethernet)

Manufacturer: RAYA Technology - iCMAN

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Description

The RMC11 is an industrial bidirectional Modbus RTU to Modbus TCP converter designed to integrate RS-485 serial equipment with Ethernet networks. This converter enables stable and transparent communication between Modbus RTU-based devices and Modbus TCP-based monitoring or control systems. On the Modbus RTU side, the RMC11 converter has no limitations on the number of connected devices and can easily manage multiple serial equipment.

On the Modbus TCP side, this model supports a single Device (Client/Server), making it an ideal choice for simple, stable, and cost-effective projects.

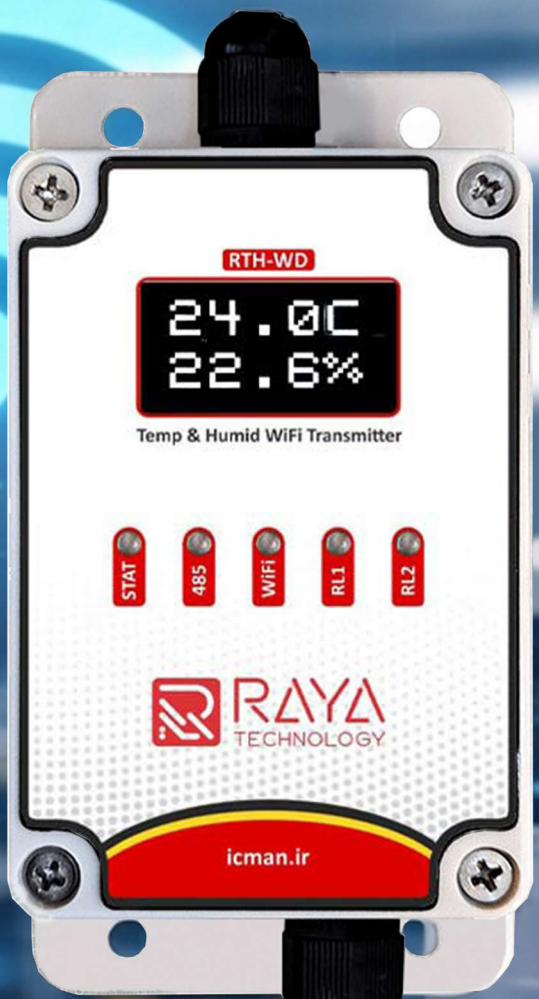
Due to its industrial design and high compatibility, this product is used in various applications such as industrial automation, electrical panels, energy monitoring systems, PLCs, HMIs, and SCADAs.

Additionally, for projects requiring support for multiple devices on the TCP side, the RMC12 model is offered as an advanced version.

Technical Specifications
Bidirectional Modbus RTU ↔ Modbus TCP Converter
RS-485 communication interface on the RTU side
No limitations on the number of Modbus RTU devices
Support for a single Device on the Modbus TCP side
Support for a single Device on the Modbus TCP side
Simple installation and commissioning with flexible settings

General Specifications	
Dimensions	87.5*24*45.7 mm
Enclosure Material	ABS
Installation	DIN Rail / Wall-Mounted

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Specifications

Product Name: WiFi Temperature and Humidity Sensor – Model RTH-WD

Application: Accurate measurement of temperature and humidity in industrial and building environments.

Communication Protocol: Modbus TCP (WiFi)

Manufacturer: RAYA Technology - iCMAN

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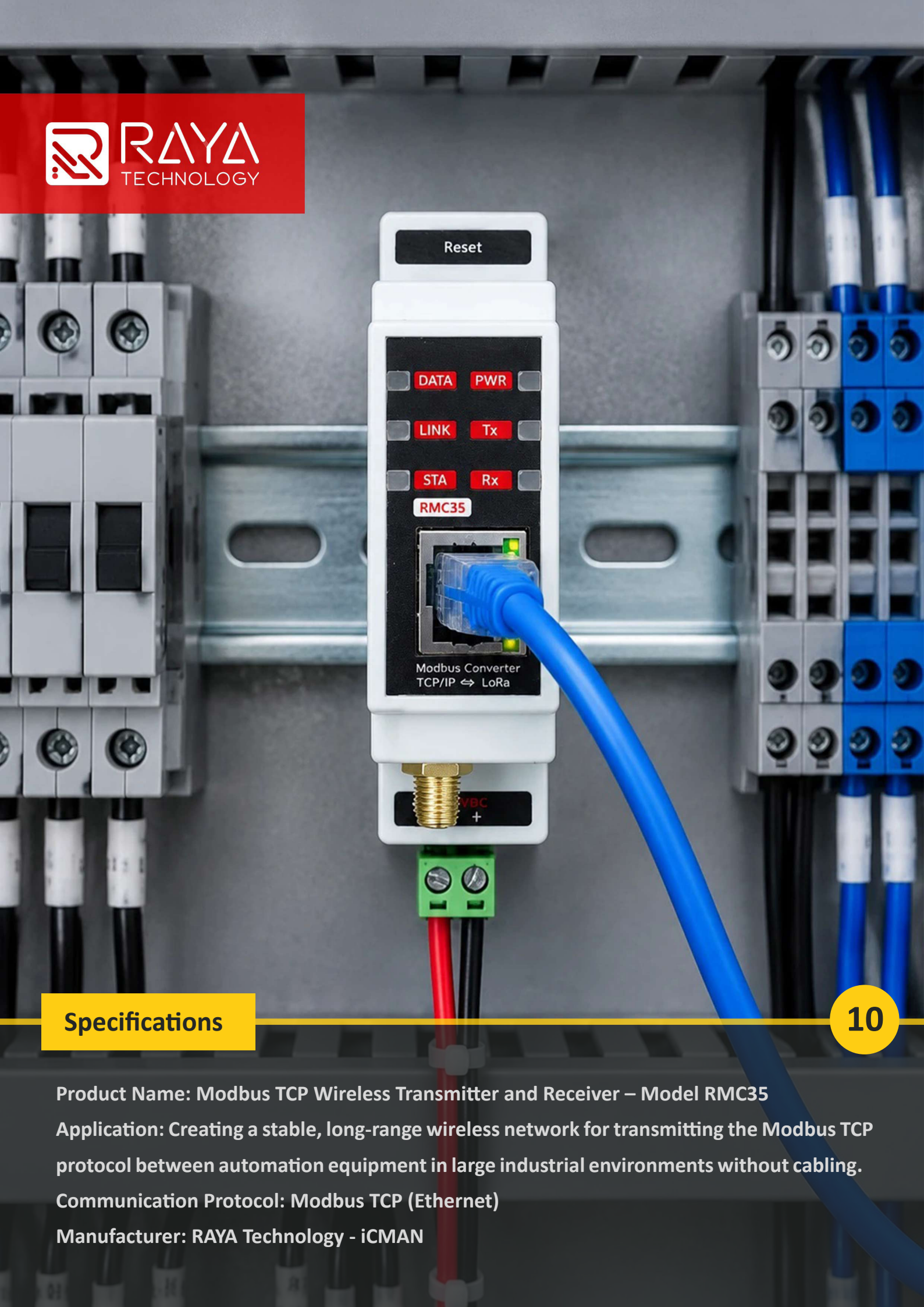
Description

In the WiFi sensor, a Swiss chip from Sensirion is used, with a temperature measurement range of -20 to +85 degrees Celsius, and the humidity measurement range of this sensor is 0 to 100 percent.

The communication protocols embedded in this device provide the capability to connect to various PLCs, DCSs, and RTUs, and it can also communicate with various equipment that supports Modbus TCP, Modbus RTU, JSON, and HTTP.

Technical Specifications	General Specifications		
Temperature Measurement Range: -20°C to +85°C	Dimensions	153*68*52 mm	
Humidity Measurement Range: 0 to 100%	Enclosure Material	ABS	
Two 1-Amp Relay Outputs	Installation	DIN Rail / Wall-Mounted	
Input Voltage: 220V	IP	Main body of the device	IP54
Support for Modbus TCP protocol via Wi-Fi		Protective sensor sleeve	IP61
Equipped with a professional web service for configuration via browser			

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Specifications

10

Product Name: Modbus TCP Wireless Transmitter and Receiver – Model RMC35

Application: Creating a stable, long-range wireless network for transmitting the Modbus TCP protocol between automation equipment in large industrial environments without cabling.

Communication Protocol: Modbus TCP (Ethernet)

Manufacturer: RAYA Technology - iCMAN

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Description

With the growing need for remote monitoring and control in industry, facing connectivity challenges in large areas or locations without network infrastructure has become common. Our RMC35 radio transmitter is an innovative and powerful response to these needs. Utilizing advanced LoRaWAN technology, this device enables transmission of vital data based on the standard Modbus TCP protocol over incredible distances of up to more than 1500 meters under suitable weather conditions and line-of-sight (Line-of-Sight).

Technical Specifications
Exceptional antenna coverage up to 1500 meters (Line-of-Sight)
Full support for the MODBUS TCP/IP protocol
Plug & Play installation and setup without the need for knowledge in the radio field
Ability to use 8 transmitters and receivers simultaneously in one environment
Suitable for industrial and automation applications
An economical choice for Modbus networking projects

General Specifications	
Dimensions	87/50 * 45/70 * 24 mm
Enclosure Material	ABS
Installation	DIN Rail

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Specifications

Product Name: GSM and Modbus-Based IoT Gateway – Model RGM3-W

Application: An intelligent industrial interface for connecting Modbus devices to IoT platforms and remotely managing systems via SMS and web-based APIs.

Communication Protocol: Modbus RTU (RS485), Modbus TCP (Ethernet)

Manufacturer: RAYA Technology - iCMAN

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Description

The GSM Modbus IoT Gateway is a multi-purpose industrial communication module designed to connect Modbus protocol-based equipment to telecommunication networks and software systems. By utilizing various communication interfaces including RS485, LAN network, and WiFi, this device enables communication between PLCs, industrial controllers, monitoring systems, and web-based services.

Technical Specifications
Industrial SMS Gateway (SMS Gateway)
Support for industrial and web protocols (Modbus RTU, Modbus TCP, and HTTP)
Ability to define a custom control command for incoming SMS messages
Ability to define 200 predefined messages
Ability to define 200 authorized mobile numbers
Equipped with an API for sending a custom SMS to any desired number (exactly similar to an online SMS API)

General Specifications	
Dimensions	86 * 70 * 60 mm
Enclosure Material	ABS
Installation	DIN Rail



Specifications

Product Name: Professional Air Quality Sensor, Model RAP-ND

Application: Online monitoring of 7 vital air parameters (CO2, TVOC, pressure, temperature, and humidity) with direct equipment control via 2 relay outputs and connection to BMS and SCADA systems.

Communication Protocol: Modbus TCP (Ethernet) and Modbus RTU (RS485)

Manufacturer: RAYA Technology - iCMAN

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Description

The intelligent environmental quality monitoring system is a comprehensive solution for managing atmospheric risks in sensitive environments. Utilizing ultra-precise sensors, this device ensures simultaneous monitoring of critical parameters including volatile organic compounds (TVOC) concentration up to 60,000 ppb and carbon dioxide (CO2) levels up to 5,000 ppm, with automatic barometric pressure compensation. Furthermore, by accurately measuring barometric pressure, ambient temperature, relative and absolute humidity, and providing the standard Indoor Air Quality (IAQ) index, the device delivers a real-time and highly accurate picture of atmospheric health. This high measurement accuracy enables rapid identification of chemical leaks and sudden environmental changes, ensuring operational stability in sensitive industries.

General Specifications
Simultaneous measurement of 7 vital environmental parameters (TVOC, CO2, pressure, temperature, and humidity)
Equipped with 2 relay outputs for direct control of ventilation systems and peripheral equipment
Support for industrial protocols Modbus RTU (RS-485) and Modbus TCP (Ethernet)
Equipped with web services for remote management and monitoring
Designed for sensitive environments requiring high standards (cleanrooms, data centers, and advanced BMS systems)
Accurate indoor air quality (IAQ) monitoring for optimizing energy consumption in buildings

Technical Specifications
CO2 Measurement Range: 0 ~ 5000 ppm
Control Output: 2 Relay Outputs
Communication Protocols: Modbus RTU / Modbus TCP
Network Capabilities: Support for Web Service (API)
Supply Voltage: 12 ~ 24 VDC



Specifications

Product Name: Professional Water Quality Sensor, Model RWQ-N

Application: Online monitoring and intelligent control of 4 key water quality indicators (pH, EC, TDS, and turbidity) with support for industrial protocols (Modbus) and communication channels (SMS/Webhook)

Communication Protocol: Modbus RTU (RS485) and Modbus TCP (Ethernet)

Manufacturer: RAYA Technology - iCMAN

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Description

This device is a unified, industrial, and specialized system for online monitoring, real-time alerting, and control of liquid parameters. Utilizing precise industrial probes, it continuously monitors 4 key water indicators — acidity (pH), electrical conductivity (EC), turbidity, and total dissolved solids (TDS) — with high resolution. The device's communication core is based on the proven industrial engine RGM3-W, which provides custom monitoring and reporting through a smart messaging platform with keywords, phone calls, Webhooks (JSON), an internal web server, Wi-Fi/LAN networking, and standard Modbus protocols (RTU & TCP) — all within a single unified industrial hardware.

General Specifications
Simultaneous measurement of 4 vital parameters (pH, EC, TDS, and turbidity) in a single device
Equipped with an RS-485 communication port with the Modbus protocol for integration with PLCs and automation systems
Sending alerts and data via modern communication channels (SMS and Webhook)
Easy software calibration capability for all sensors to maintain accuracy over long periods
Corrosion-resistant body designed for harsh environmental conditions (water treatment plants and humid environments)
Ability to connect to intelligent control systems for managing water treatment and discharge processes

Technical Specifications
pH Measurement Range: 0 ~ 14 pH
EC/TDS Measurement Range: 0 ~ 20,000 µS/cm
Communication Protocols: Modbus RTU / Modbus TCP
Communication Capabilities: SMS Alert / Webhook Support
Supply Voltage: 12 ~ 24 VDC

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Chapter 2:

Products
Modbus RTU (RS485)

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Specifications

Product Name: CO2 Transmiter Model RC2-D

Application: Measurement of carbon dioxide (CO2) concentration in the environment, along with temperature, humidity, and pressure parameters

Communication Protocol: Modbus RTU (RS485)

Manufacturer: RAYA Technology - iCMAN

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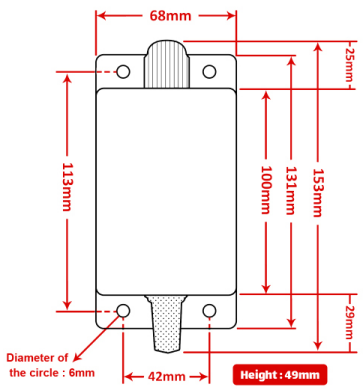


Key Features

* OLED digital display for real-time value monitoring
* Accurate measurement of CO2, temperature, humidity, and ambient pressure
* RS485 output with Modbus RTU protocol
* Two adjustable relay outputs (for ventilation control or alarms)
* Threshold configuration and calibration capability
* Robust design with replaceable internal sensor
* Easy installation and operation
* By adding the DRG01 module, which is also available on the website, installation in electrical panels and on DIN rails is possible.

Applications

* HVAC Systems (Heating, Ventilation, and Air Conditioning)
* Indoor Air Quality Control (Schools, Offices, Hospitals)
* Greenhouses and Plant Cultivation Centers
* Laboratories and Research Facilities
* Server Rooms or Clean Rooms



Features	
Power Supply	24 V DC
Communication Output	RS485 – Modbus RTU
Relay Output	2 units, configurable
IP	64
Dimensions	153 × 68 × 49 mm
Enclosure Material	ABS
Installation	Wall-mounted (with screws or mounting bracket)
Cable	Input Cable: 0.5 meters of 4-core stranded shielded cable with a thickness of 0.25 (Power + RS-485)
Protective Cover	Equipped with a porous brass protective cover

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CO2 gas measurement features

Measurement range	400ppm-5000ppm	
Measurement accuracy	In the range of 400 ppm to 1,000 ppm	2.5%+50ppm Read value
	In the range of 1001 ppm to 2000 ppm	3%+50ppm Read value
	In the range of 2001 ppm to 5000 ppm	5%+40ppm Read value
Due to the effect of air pressure on the CO2 level, the accuracy of the pressure sensor will affect the accuracy of the read CO2 value		

Temperature measurement features

Device operating temperature	-10 to +60 °C
Measurement range	-10 to 60 °C
Typical accuracy	±0.8 °C (at a temperature of 15 to 35 °C)
	±1.5 °C (at a temperature of -10 to 60 °C)



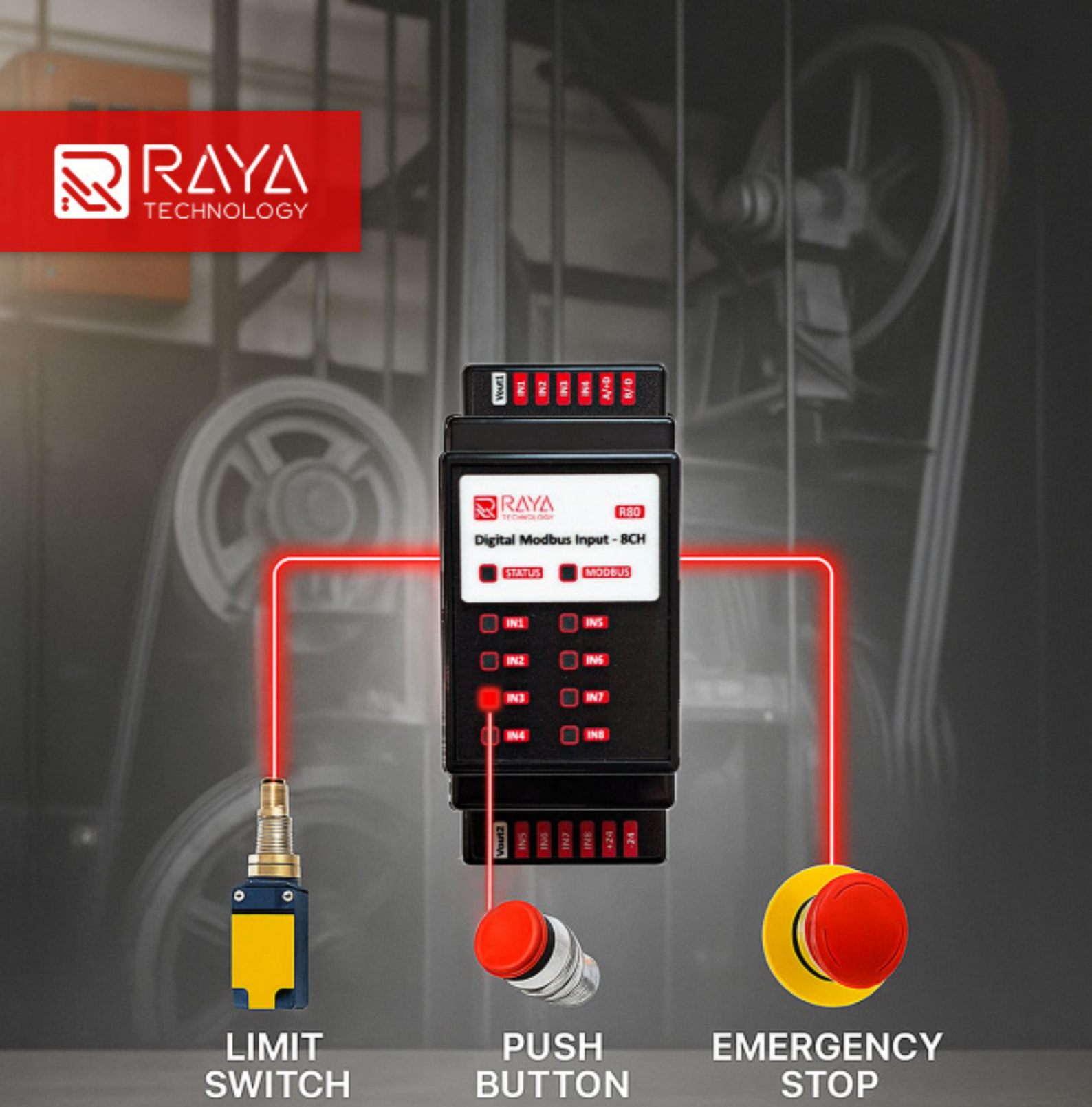
Humidity measurement features

Device operating humidity	0 to 95% RH
Measurement range	0 to 95% RH
Typical accuracy	±6%RH (At a temperature of 15 to 35 °C And humidity 20to 65 %)
	±9%RH (At a temperature of -10 to 60 °C And humidity 0 to 90 %)

Pressure measurement features

Operating range	200 to 1100 hPa (absolute pressure)
Equivalent altitude	-700 m at 500 hPa pressure
Calibration range	500 hPa to 1100 hPa (absolute pressure)
Operating range (in bar)	0.2 to 1.1

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Specifications

Product Name: 8-Channel Input Card Model R80

Application: Used for monitoring and receiving digital signals from industrial equipment via the Modbus RTU protocol.

Communication Protocol: Modbus RTU (RS485)

Manufacturer: RAYA Technology - iCMAN

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Applications

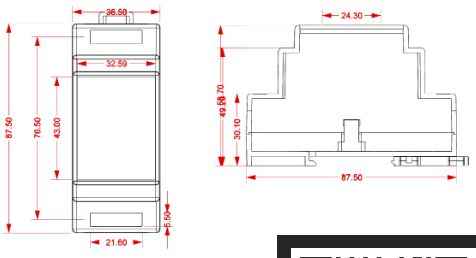
* Industrial Automation Systems
* Building Automation
* Greenhouses
* Production Lines
* Energy Monitoring Systems

*Due to its internal isolation and resistance to environmental noise, it is considered an ideal option for sensitive industrial environments and locations with long distances between sensors and the central controller.

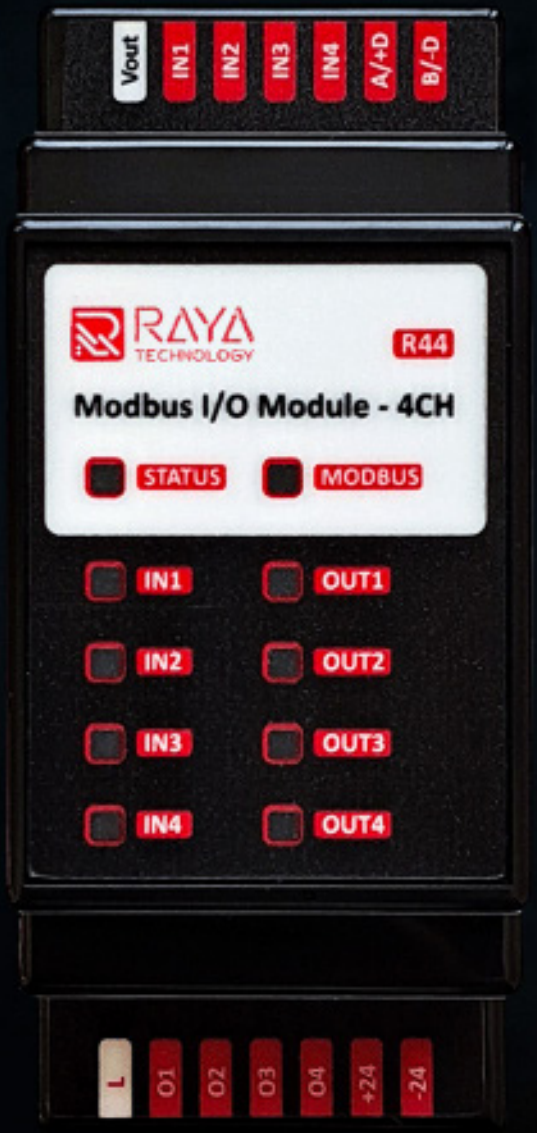
Features
Communication with the central unit via Modbus RTU protocol
Receiving digital signals from 8 independent inputs
Internal isolation for enhanced safety and noise reduction
Individual input status indication via dedicated LEDs
Supports voltage and contact signals within standard range
Automatic detection system for Modbus network disconnection
Modbus address can be changed via Write Single Holding Register function (0X06)
Simultaneous reading of all input statuses via Read Discrete Inputs function (0X02)
Capability to read all input statuses using Read Holding Register command (0X03)
Special protection for RS-485 port to improve communication stability
24V DC power supply with optimized consumption

General Specifications	
Dimensions	87/50 * 36/50 * 58/70 mm
Enclosure Material	ABS
Installation	DIN Rail

Technical Specifications	
Number of Digital Inputs	8 channels
Communication Protocol	Modbus RTU
Communication Interface	RS485



RAYA TECHNOLOGY



Specifications

Product Name: 8-Channel Input/Output Card Model R44

Application: Suitable for industrial monitoring and control via RS-485 network using the Modbus RTU protocol.

Communication Protocol: Modbus RTU (RS485)

Manufacturer: RAYA Technology - iCMAN

RAYA TECHNOLOGY



Applications

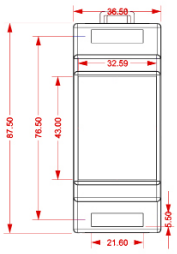
* Intelligent Monitoring Systems
* Remote Control
* Industrial Automation
* Security Systems
* Smart Greenhouses
* Energy Management

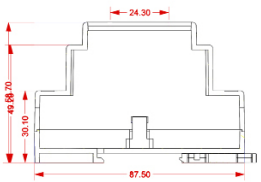
*Combining input and output in a single device allows efficient control, monitoring, and management of industrial processes.

Features
Communication with the central unit via Modbus RTU protocol
4 isolated digital input channels for receiving digital signals
4 relay output channels (1 Amp) for controlling various equipment
Internal isolation to protect inputs and reduce noise
Capability to control equipment up to 1000 meters away from the central unit
Automatic detection system
Automatic shutdown of outputs after 4 minutes of Modbus network disconnection for enhanced safety
Modbus address configurable via Write Single Holding Register function (0X06)
Read input status via Read Discrete Inputs function (0X02)
Read relay status via Read Holding Register function (0X03)
Send commands to relays via Write Single Holding Register function (0X06)
Special protection for RS-485 port against noise and voltage fluctuations
24V DC power supply with optimized consumption
Separate LEDs for displaying network, input, and output status

General Specifications	
Dimensions	87/50 * 36/50 * 58/70 mm
Enclosure Material	ABS
Installation	DIN Rail

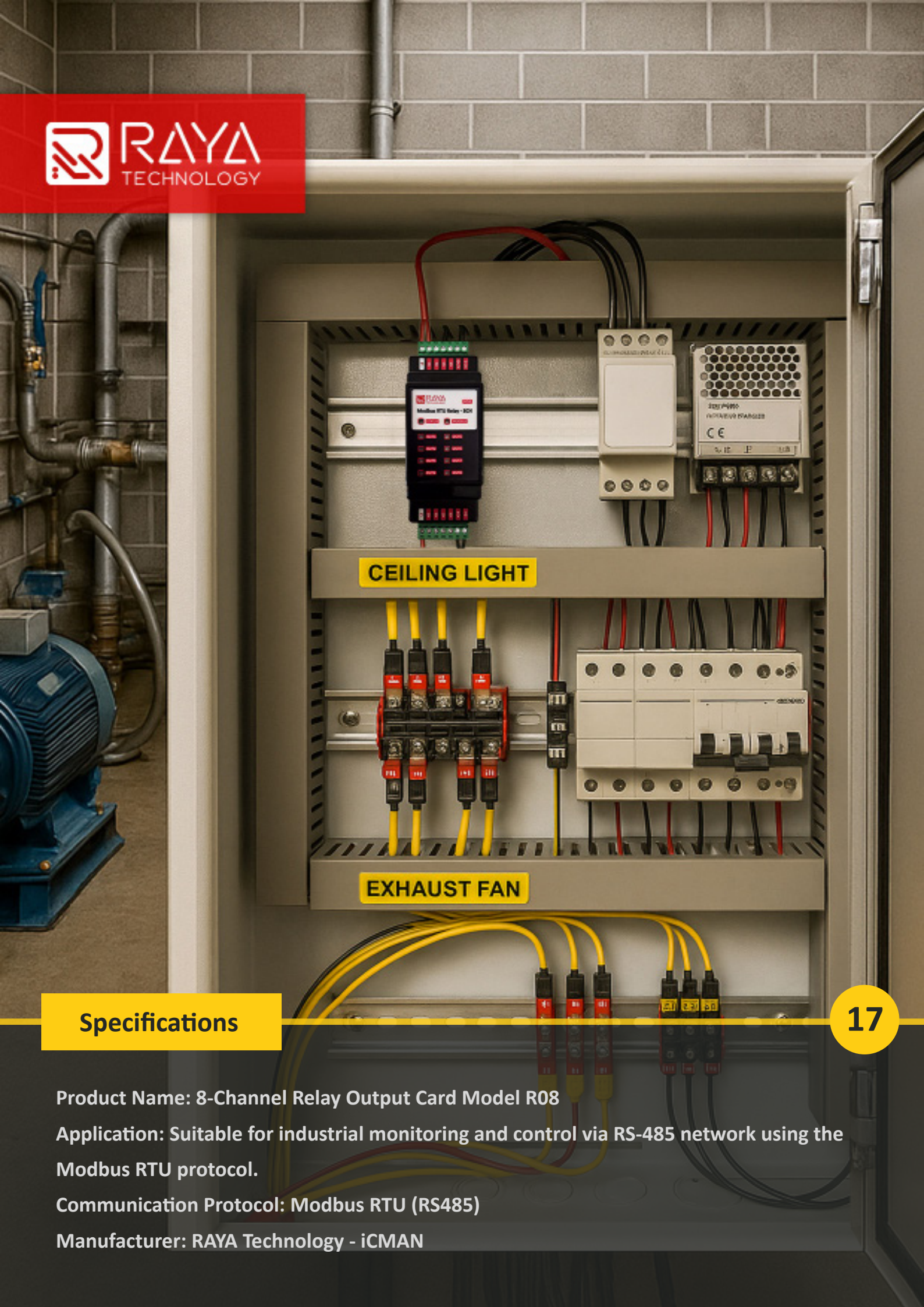
Technical Specifications	
Number of Digital Inputs	4 channels
Number of Relay Outputs	4 channels
Communication Interface	RS485
Communication Protocol	Modbus RTU





Learn More

RAYA TECHNOLOGY



Specifications

Product Name: 8-Channel Relay Output Card Model R08

Application: Suitable for industrial monitoring and control via RS-485 network using the Modbus RTU protocol.

Communication Protocol: Modbus RTU (RS485)

Manufacturer: RAYA Technology - iCMAN

RAYA TECHNOLOGY



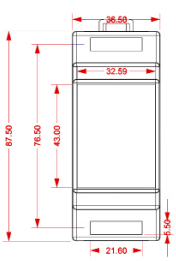
Applications

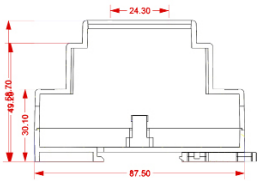
Using output cards, it is possible to send on/off commands to various equipment such as fans and heaters through the Modbus network in industries like agriculture and greenhouses, water and wastewater, oil and gas, and more. This product significantly reduces cabling between equipment and central control panels. Additionally, these cards can be connected to various Modbus-compatible devices such as PLCs, RTUs, DCS systems, and others.

Features
Communication with the central unit via Modbus RTU protocol
Ability to send commands to devices up to 1000 meters away from the central unit
Equipped with 8 relay outputs (1 Amp) for simultaneous control of 8 different devices
Two separate voltage inputs on each side of the device for input voltages up to 220V
Simultaneous use of two different output voltages supported
Automatic detection of Modbus network disconnection
Automatic shutdown of outputs after 4 minutes of Modbus disconnection (for enhanced safety in industrial networks)
Modbus address changeable via Modbus network (software-based)
Special protections for RS-485 output
Separate LEDs for Modbus network and output status indication
Ability to read device address, read all relay statuses together, or read each relay individually via Read Holding Register (0X03)
Ability to write the device address and control each relay individually via Write Single Holding Register (0X06)

General Specifications	
Dimensions	87/50 * 36/50 * 58/70 mm
Enclosure Material	ABS
Installation	DIN Rail

Technical Specifications	
Number of Relay Outputs	8 channels
Communication Interface	RS485
Communication Protocol	Modbus RTU
Input voltage	24V





RAYA TECHNOLOGY



Specifications

Product Name: Modbus Wind Speed Sensor Model RWS3-R

Application: Accurate wind speed measurement in industrial environments and automation projects via Modbus RTU protocol.

Communication Protocol: Modbus RTU (RS485)

Manufacturer: RAYA Technology - iCMAN

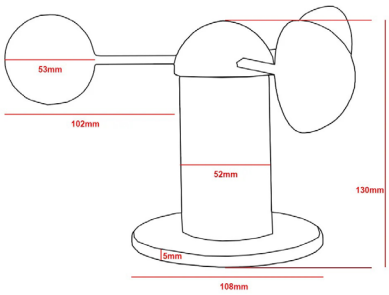
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Applications

* Weather Stations and Climate Monitoring Systems
* Building Automation and Industrial Ventilation (HVAC)
* Smart Control Systems for Greenhouses and Livestock Farms
* Environmental Monitoring in Mines and Power Plants
* Wind Speed Measurement in Wind Turbines and Offshore Platforms

Features
Industrial RS485 communication with support for the Modbus RTU protocol
Advanced calibration with zero (Zero) and span (Span) adjustment capability
High accuracy in wind speed measurement using a software filter
Broad compatibility with PLCs, HMIs, data loggers, and monitoring software
Simultaneous digital and pulse output (600 pulses per revolution)
Modbus RTU: support for functions F03 and F06



Software Features
Support for Modbus RTU settings: including device addressing, baud rate, parity bit, and stop bit
Ability to read data in different units (wind speed in meters per second, kilometers per hour, etc.)
Setting and correcting the read value using calibration parameters

RAYA TECHNOLOGY



Specifications

Product Name: Modbus Earth Meter, Model RED71

Application: For measuring the resistance of the earthing system and continuously monitoring it in industrial electrical projects and automation systems using the Modbus network.

Communication Protocol: Modbus RTU (RS485)

Manufacturer: RAYA Technology - iCMAN

RAYA TECHNOLOGY



Description

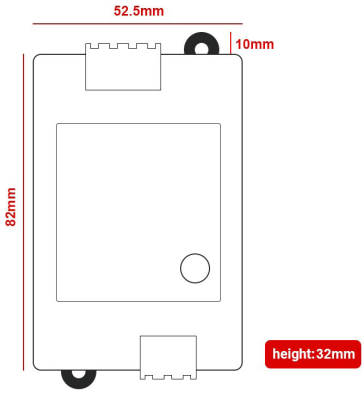
The Earth Detector device, model RED71 from Raya Technology, is a module for detecting the connection of the earth wire and wiring, designed to monitor the integrity of neutral, phase, and earth connections in single-phase and three-phase electrical systems. This device, leveraging the Modbus protocol, can connect to monitoring and industrial automation systems and features an RCD (Residual Current Device) test button with a test current of 30 milliamps for up to 2 seconds. Its use in industrial electrical panels, data centers, and sensitive equipment is recommended to increase safety and prevent hazards arising from earth faults.

* In addition to being usable in Modbus network–based industrial automation systems, this device can also be installed independently in the electrical panel; such that, by using the LED indicators embedded on the device, the earth status can be determined and utilized.

Applications

* Industrial and building electrical panels
* Electrical monitoring systems
* Data centers and sensitive equipment
* Building or industrial projects in the commissioning phase
* UPS and generator systems

General Specifications	
Dimensions	52.5 * 82 * 32 mm
Enclosure Material	ABS
Installation	DIN rail / Wall-mounted
Modbus-RTU (via RS-485 network)	
Standard 6-state earth tester output	
Equipped with RCD (Residual Current Device) test button	



RAYA TECHNOLOGY



Specifications

Product Name: 10-Channel Battery Health Measurement Device, Model RBH10

Application:Monitoring the health and performance of UPS batteries in data centers, hospitals, power plants, and industrial facilities.

Communication Protocol: Modbus RTU (RS485)

Manufacturer: RAYA Technology - iCMAN

RAYA TECHNOLOGY



Description

This device is a product of Raya Technology. Its main function is to monitor the health of batteries (especially UPS batteries) under various conditions. By measuring parameters such as voltage, current, temperature, and the internal resistance of battery cells, the device evaluates their health status. Device communication is via the Modbus protocol, and real-time monitoring and data logging are available.

- ☑ High accuracy in assessing battery health
- ☑ Ability to integrate with network monitoring systems (SNMP / JSON / TCP)
- ☑ Suitable for data centers, industrial facilities, banks, and high-capacity UPS systems

Key features

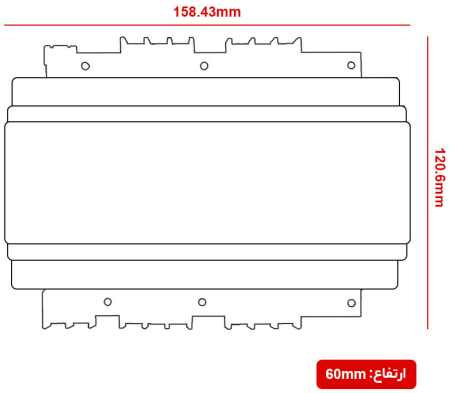
* **Cold test:** measuring the voltage, current, and temperature of each battery during normal UPS operation
* **Hot test:** measuring internal resistance, voltage, current, and temperature for a precise assessment of battery health
* **UPS control:** the ability to command the contactor to disconnect or connect the input and output power
* **Full communications:** support for RS-485 and Modbus RTU, and if needed, by connecting the RMC20 converter, sending results over the network in the form of SNMP, JSON, Metrics, and Modbus TCP
* **Expandability:** each device covers 10 batteries; with one converter, you can manage up to 10 devices and a total of 100 batteries simultaneously.

Applications

* Data centers (IT) to maintain the stability of emergency power.
* Oil, gas, and petrochemical industries to ensure the readiness of backup systems.
* Hospitals and medical centers to guarantee the operation of sensitive medical equipment.
* Power plants and substations for managing industrial battery banks.
* Large organizations and offices for monitoring and maintaining UPS batteries.

RAYA TECHNOLOGY

Technical specifications	
Number of channels	10 channels
Measurable voltage range	0 to 15 V DC
Voltage measurement accuracy	±0.05 V
Measurable current range	0 to 100 A (depending on shunt design)
Current measurement accuracy	±0.1 A
Measurable parameters	Voltage, current, temperature, internal resistance
Tests	Cold (Cold Test) and Hot (Hot Test)
Output control	Command to disconnect/connect the UPS contactor
Hardware communication protocol	RS-485، LAN (Ethernet)
Software protocols	Modbus RTU، Modbus TCP، SNMP، Metrics، JSON
Expandability	Connection of up to 10 devices (monitoring 100 batteries) with a single converter Advantages



General Specifications	
Dimensions	158.43 * 120.6 * 60 mm
Enclosure Material	ABS
Installation	DIN rail



Specifications

Product Name: Modbus Temperature and Humidity Sensor – Model RTH-R

Application:Accurate temperature and humidity measurement for locations where installation space is limited or where the sensor must be placed precisely inside a duct/chamber.

Communication Protocol: Modbus RTU (RS485)

Manufacturer: RAYA Technology - iCMAN

RAYA TECHNOLOGY

Description

The RTH-R sensor is a temperature and humidity measurement sensor with RS-485 communication and Modbus RTU protocol, which in terms of performance is designed for the same applications as the TH1-ECO model in industrial and semi-industrial projects such as greenhouses, poultry farms, livestock farming centers, server rooms, laboratories, cold storage facilities, office and residential buildings, etc.; with the important difference that this model is much smaller and more economical, and its structure is cable-mounted; meaning the sensor is placed exactly at the measurement point.

specifications
Data Transmission: Via RS-485 network under the Modbus RTU software protocol
Temperature and Humidity Measurement Range: -20°C to +85°C and 0% to 100%
Resolution: 12-bit resolution for temperature measurement (0.04°C resolution) and 8-bit resolution for humidity measurement (0.7% resolution)
Measurement Accuracy: ±0.3°C for temperature and ±3% for humidity
Automatic Detection System: For Modbus network disconnection
Sensor Type: High-quality Swiss sensor
Dimensions: 60 × 10 mm
Input Voltage: 9-24 VDC
Enclosure: Waterproof package with IP62 standard
Mounting Capability: Wall-mounting capability
Input Cable: 25 cm of 4-core stranded cable with a thickness of 0.25 (Power + RS485)
Sensor Protection Cover: Porous ABS protective cover for the temperature and humidity sensor
Professional Software: Equipped with professional software for sampling (data logging), calibration, address configuration, value reading, and much more.



RAYA TECHNOLOGY



Specifications

Product Name: Modbus Oxygen (O2) Sensor, Model RO2-R

Application:Monitoring ambient/process oxygen concentration and transmitting data via Modbus RTU (RS-485) for use in control and SCADA systems.

Communication Protocol: Modbus RTU (RS485)

Manufacturer: RAYA Technology - iCMAN

RAYA TECHNOLOGY



Description

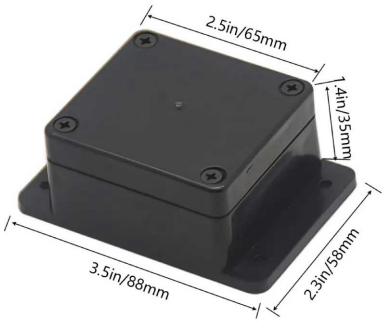
This device is designed to measure ambient oxygen concentration in industrial and laboratory applications. Using electrochemical technology, the sensor measures the amount of oxygen present in air or a process environment and provides the measured data to industrial monitoring systems via the RS-485 network and under the Modbus RTU protocol.

This device can be connected to various PLC, DCS, RTU, HMI, and SCADA systems and can be used in industrial monitoring and control systems.

The measured values can be received via Modbus as follows:
Oxygen concentration in percent (%Vol)

Technical specifications
Measurement range: 0 to 25%
Reliable measurement accuracy using Alphasense UK technology
Support for Modbus RTU protocol over RS-485
Output in percentage format
No need for complex calibration or processing by the user

General Specifications	
Dimensions	88 *58*35 mm
Enclosure Material	ABS
IP	IP61



RAYA TECHNOLOGY



Specifications

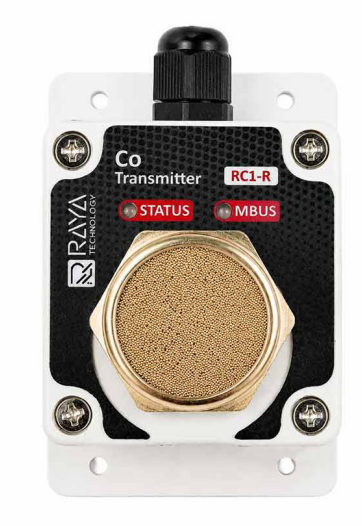
Product Name: Modbus Carbon Monoxide Sensor, Model RC1-R

Application: Precise monitoring of CO gas concentration in industrial environments, parking lots, and facilities to automate ventilation systems and enhance safety levels.

Communication Protocol: Modbus RTU (RS485)

Manufacturer: RAYA Technology - iCMAN

RAYA TECHNOLOGY

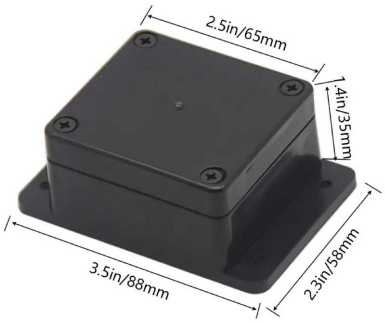


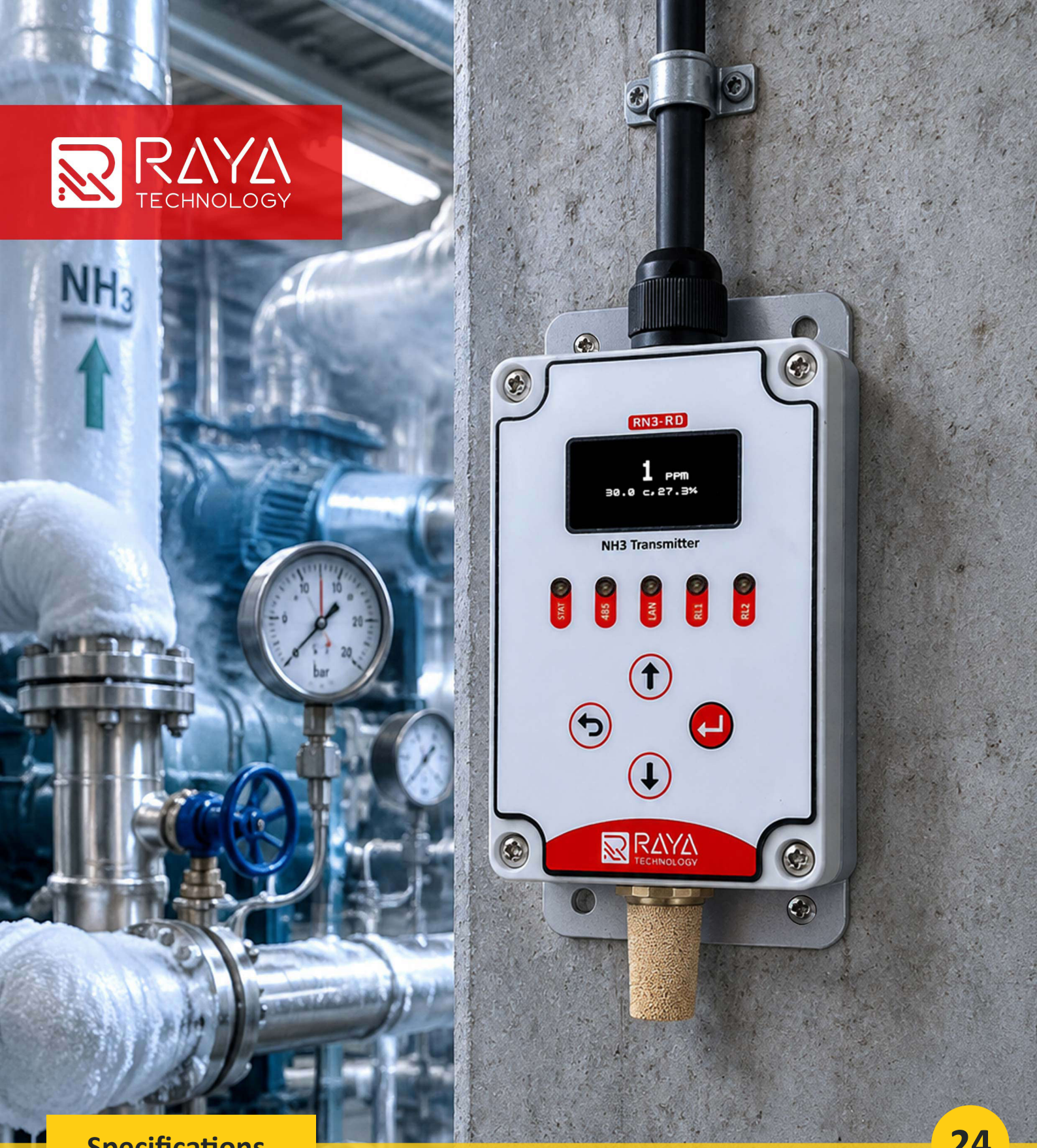
Description

The CO carbon monoxide sensor is a precise and reliable device for monitoring carbon monoxide gas concentration in industrial, building, and facility environments. Utilizing the Modbus RTU communication protocol over an RS-485 physical layer, it enables direct connection to various control and monitoring systems such as PLCs, BMS, HMIs, SCADAs, and dataloggers. Featuring high measurement accuracy, fast response time, and stable performance under various environmental conditions, this sensor is an ideal choice for safety control in spaces such as parking lots, boiler rooms, tunnels, workshops, factories, as well as office and residential buildings. The use of industrial RS-485 communication in this product ensures stable data transmission over long distances and allows for the networking of multiple sensors and centralized monitoring, making it an ideal choice for smart automation projects.

Technical specifications	
Measurement Range	0 to 1000 ppm
Maximum Detectable Concentration	Up to 1500 ppm
Nominal Accuracy	0.5 ppm
Actual Accuracy	1 ppm
Response Time	Less than 50 seconds (T90)
Operating Temperature	-20°C to +60°C
Communication Protocol	Modbus RTU
Communication Interface	RS-485

General Specifications	
Dimensions	88 *58*35 mm
Enclosure Material	ABS
IP	IP61





Specifications

Product Name: Ammonia Sensor, Model RN3-RD

Application: Online monitoring of ammonia gas leakage, temperature, and humidity in cold rooms, poultry farms, petrochemical industries, and water treatment plants for connection to PLC, BMS, and SCADA systems.

Communication Protocol: Modbus RTU (RS485)

Manufacturer: RAYA Technology - iCMAN

RAYA TECHNOLOGY

Description

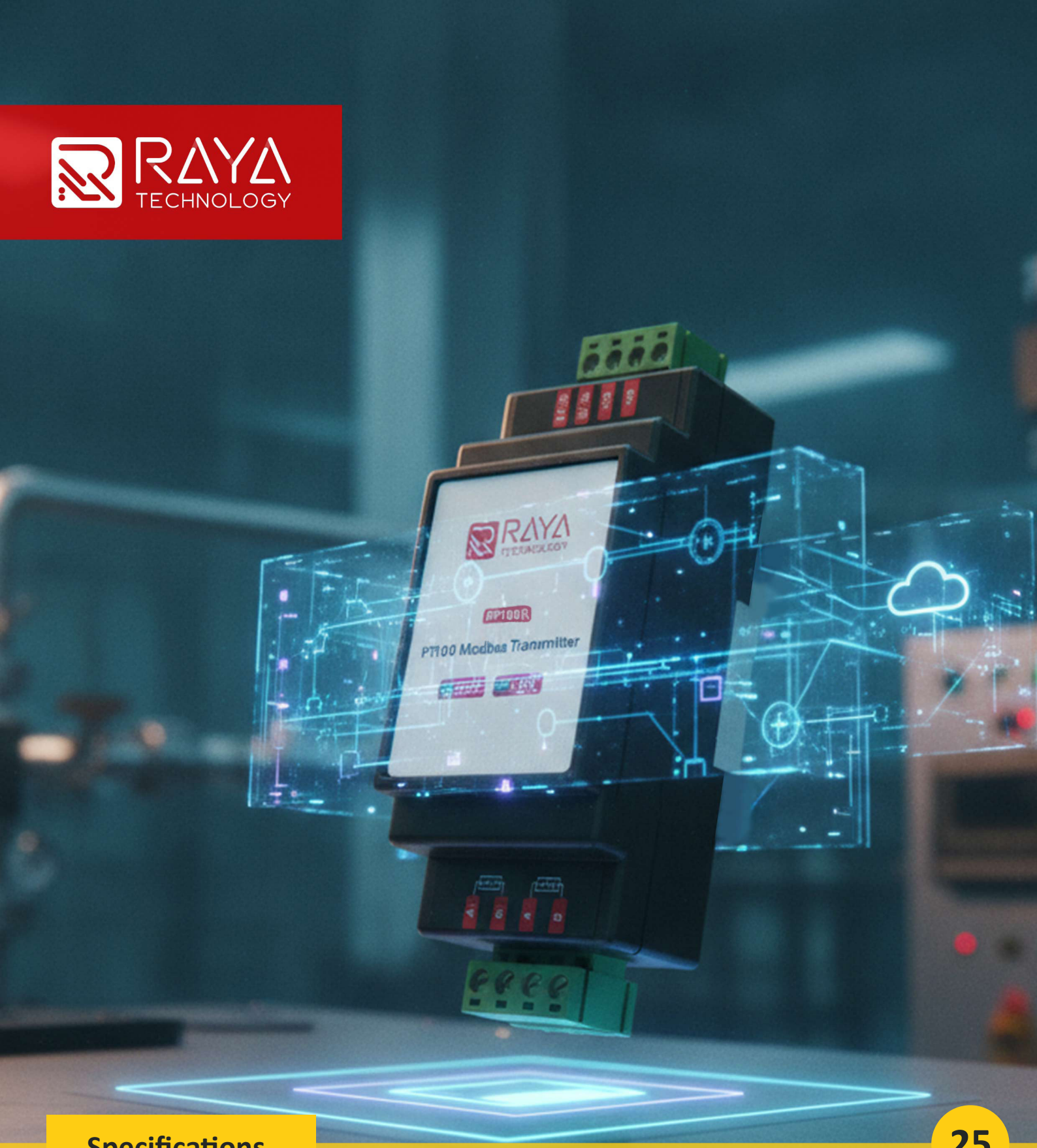
The intelligent ammonia (NH3) gas monitoring transmitter is a precise and reliable solution for continuous gas concentration measurement, atmospheric risk management, and safety monitoring in sensitive industrial, agricultural, and refrigeration environments. Utilizing a sensor cell with MEMS technology, this device measures and transmits ammonia concentration in the range of 0 to 100 ppm with high accuracy.

In addition to precise ammonia measurement, the device is equipped with sensors for simultaneous monitoring of temperature and relative humidity to provide a comprehensive, real-time picture of ambient conditions. Featuring standard network outputs and industrial communication, this equipment delivers environmental data online and in real time to central monitoring and control systems.

Technical specifications	
Ammonia Measurement Range	0 to 100 ppm
Ammonia Measurement Accuracy	± (3% Reading + 3 ppm)
Gas Concentration Resolution	1 ppm
Supply Voltage	12 ~ 24 VDC
Communication Medium & Protocol	RS-485 / Modbus RTU
Operating Temperature Range	-10°C to +50°C
Operating Humidity Range	15% to 85% RH (non-condensing)
Physical Dimensions	153 × 68 × 50 mm

General Specifications
Simultaneous measurement of ammonia gas (NH3) concentration, temperature, and humidity
Equipped with an advanced sensor featuring MEMS technology
Featuring a 1.3-inch graphic OLED display and local setting buttons
Equipped with an isolated RS-485 communication port with Modbus RTU protocol
Two-stage software calibration capability (Zero / Span) without opening the enclosure
Industrial design with a rugged ABS body and IP61 protection rating for wall mounting

RAYA TECHNOLOGY



Specifications

Product Name: PT100 Modbus Transmitter, Model RP100-R

Application: Monitoring and transmitting temperature data from furnaces, production lines, and thermal equipment to industrial automation networks via Modbus

Communication Protocol: Modbus RTU (RS-485)

Manufacturer: RAYA Technology - iCMAN

RAYA TECHNOLOGY

Description

The PT100 to Modbus RTU transmitter is an industrial module designed to receive signals from PT100 sensors and convert them into digital data on an RS-485 network. This device enables the connection of temperature sensors to control systems such as PLCs, HMIs, SCADA, and industrial monitoring systems.

In this configuration, the PT100 sensor is installed at the measurement point and its signal is transmitted to the transmitter. The transmitter measures the temperature value and delivers it to the industrial network via the standard Modbus RTU protocol over an RS-485 bus.

The DIN Rail design of this device makes installation in industrial electrical panels extremely simple, allowing it to be easily placed alongside other automation equipment.

Technical specifications	
Physical Dimensions	87.50 × 50.70 × 36.50 mm
Communication Protocol	Modbus RTU
Communication Interface	RS-485
Input Type	PT100 temperature sensor
Temperature Measurement Range	-30°C to +600°C
Measurement Accuracy	±0.5°C
Measurement Resolution	0.1°C

General Specifications
Support for standard Modbus functions for reading registers
Cost-effective design, ideal for automation projects
Compatible with most Modbus monitoring software
Capable of operating in multi-node Modbus networks
Configurable Modbus address
Suitable for use in industrial panels
Compatible with various industrial PLCs and HMIs
Mountable on standard 35 mm DIN Rail



RAYA TECHNOLOGY

chapter 3:

Other products

RAYA TECHNOLOGY



Specifications

Product Name: RTU Central Processor Unit – Model RTU94-SR

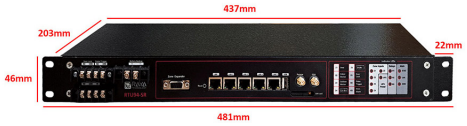
Application:An industrial communication gateway for collecting data from downstream networks, transmitting it to upstream networks, and executing commands in automation systems.

Manufacturer: RAYA Technology - iCMAN

RAYA TECHNOLOGY

Description

The RTU94-SR device is an advanced industrial control and monitoring unit designed to connect between different layers of industrial networks. This device is capable of collecting data from downstream networks and sending it to upstream networks, and it also enables receiving commands from upstream networks and applying commands to downstream networks. Accordingly, RTU94-SR, as a reliable communication bridge, plays a key role in data transmission and command execution in industrial automation systems.



General Specifications	
Dimensions	481 * 203 * 46 mm
Material	iron alloy
Weight	2.800 kg
Color	super matte black

Technical specifications	
Physical dimensions	19-inch standard (481 mm) for installation in industrial racks
Network capabilities	equipped with an internal switch for managing downstream networks and connecting to upstream systems
Operational inputs/outputs	supports various sensors and direct control of 220V equipment (such as electric doors and sirens)
Network synchronization	equipped with an internal NTP Server for automatic and accurate time synchronization of all connected devices on the network
Data transmission protocols	supports HTTP, SNMP, and FTP for data exchange and management in industrial networks
Alarm notification system	capable of sending alarms via email and monitoring protocols for rapid event notification

RAYA TECHNOLOGY



Specifications

Product Name: Custom Networked KPLCD – Model SP25

Application:A network-enabled security panel for securely arming and disarming alarm and burglar alarm systems using a personal password and a one-time password (OTP).

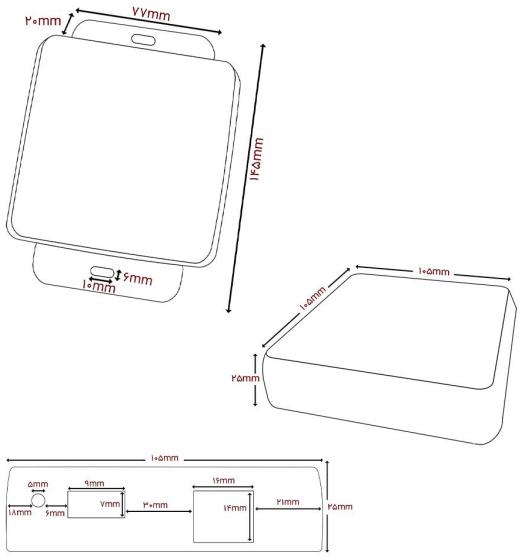
Manufacturer: RAYA Technology - iCMAN

RAYA TECHNOLOGY

Description

This device is used for enabling/disabling the Alarm or burglar alarm system by the user, in such a way that the user, by entering a personal password and a one-time password sent to the individual's assigned number, can enable/disable the Alarm system as needed.

Technical specifications
Equipped with an on/off button dedicated to the device power supply
Equipped with a monochrome OLED display
Equipped with 4 status LEDs indicating the status of different parts of the device
Equipped with a keypad for entering settings
Factory Reset button



RAYA TECHNOLOGY



Specifications

Product Name: Battery Monitor 1Cell Module – Model BM-2

Application: Intelligent remote monitoring of industrial battery voltage to prevent sudden failures in critical systems.

Manufacturer: RAYA Technology - iCMAN

RAYA TECHNOLOGY

Description

This device is used for enabling/disabling the Alarm or burglar alarm system by the user, in such a way that the user, by entering a personal password and a one-time password sent to the individual's assigned number, can enable/disable the Alarm system as needed.

Technical specifications
Online Battery Voltage Monitoring
Wireless Communication via Wi-Fi
SNMP Protocol Support
Web Service for Integration
Easy Installation and Setup

Necessity of Using This Equipment

Batteries are one of the most critical components of emergency power systems and sensitive equipment; their failure can lead to service interruptions, data loss, and financial damages. Utilizing the BM2 device ensures that battery status is permanently monitored, and any voltage drop or potential failure is identified before a problem occurs. This not only reduces maintenance costs but also increases stability and reliability in the operation of vital equipment.

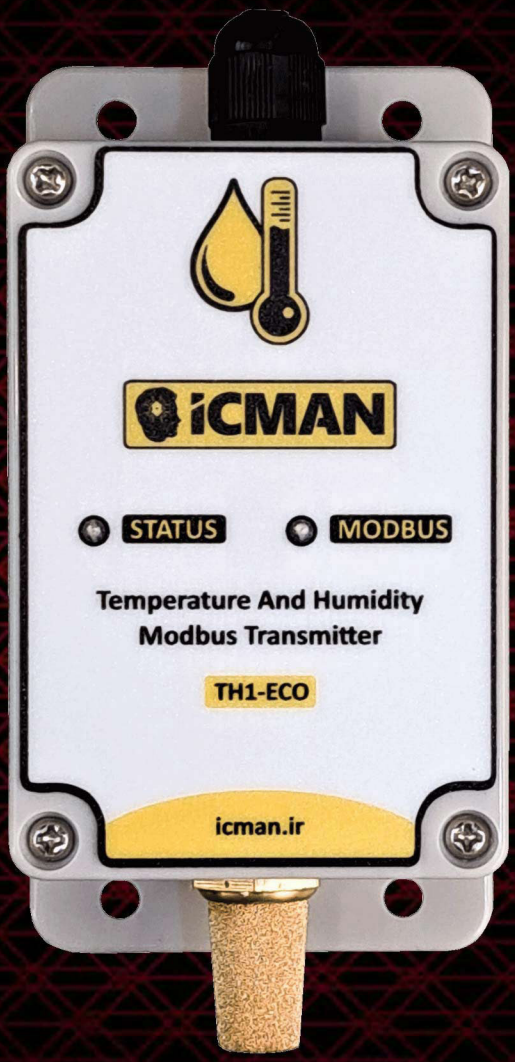
RAYA TECHNOLOGY



Chapter 4:

Smart sensors, developed by our subsidiaries in compliance with Raya standards

RAYA TECHNOLOGY



Specifications

Product Name: Modbus Temperature and Humidity Sensor, Model TH1-ECO

Application:Precise measurement and transmission of ambient temperature and humidity data via Modbus RTU network for integrated monitoring in industrial automation and utility systems.

Communication Protocol: Modbus RTU (RS485)

Manufacturer: RAYA Technology - iCMAN

RAYA TECHNOLOGY



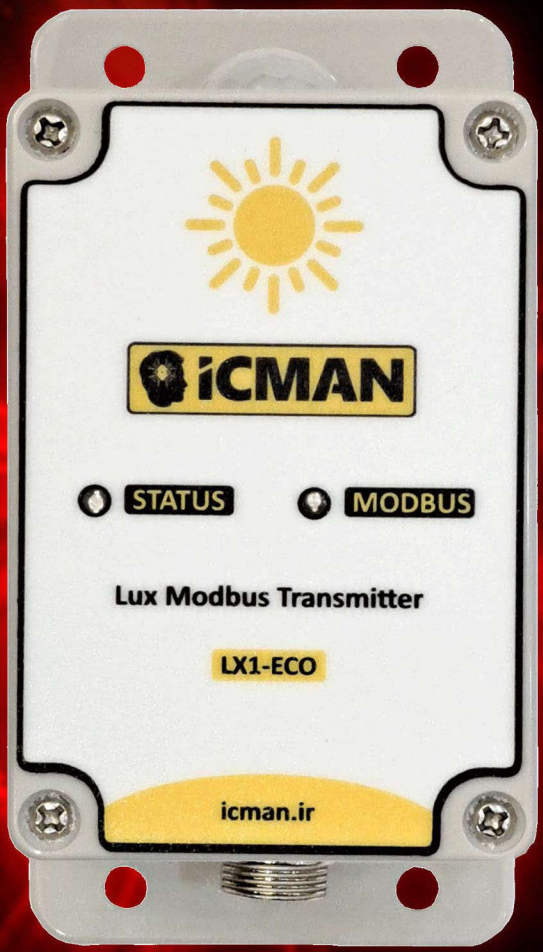
Description

This sensor measures temperature and humidity in industrial and non-industrial environments such as greenhouses, poultry farms, livestock centers, server rooms, laboratories, cold storage, office and residential buildings, etc. The device transmits temperature and humidity data via an RS-485 network under the Modbus software protocol to industrial equipment such as PLCs, DCSs, RTUs, and more.

Technical specifications	
Software Protocol	Modbus RTU (over RS-485 network)
Temperature Measurement Range	-20°C to +85°C
Humidity Measurement Range	0 to 100% RH
Professional Waterproof Package	IP64 rated
High-Quality Sensor	Swiss-made sensor
Included	Source code file for Delta PLC connection program

General Specifications	
Dimensions	131 * 68 * 49 mm
Enclosure Material	ABS
Installation	DIN Rail / Wall-Mounted

RAYA TECHNOLOGY



Specifications

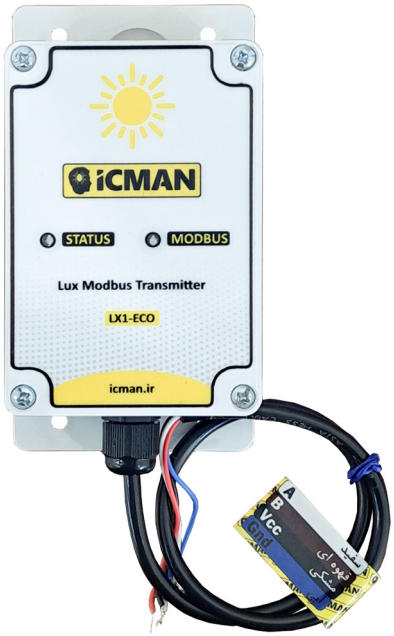
Product Name: Modbus Lux Meter Sensor – Model LX1-ECO

Application: Intelligent monitoring of ambient light intensity and transmitting data over Modbus RTU for lighting control and management in automation systems.

Communication Protocol: Modbus RTU (RS485)

Manufacturer: RAYA Technology - iCMAN

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Description

The LX1 Lux Meter Sensor measures ambient light intensity in both industrial and non-industrial environments such as greenhouses, poultry farms, livestock centers, server rooms, laboratories, cold storage units, offices, and residential buildings.

This device transmits lux (light intensity) data via the RS-485 network using the Modbus RTU protocol to industrial systems such as PLCs, DCSs, RTUs, and more.

Technical specifications
Modbus-RTU software protocol (over RS-485 network)
Lux measurement range: 1 to 98,000 lux
Lux measurement accuracy: 1 lux
Automatic detection system for Modbus network disconnection
Waterproof enclosure with IP64 protection rating

General Specifications	
Dimensions	131 * 68 * 49 mm
Enclosure Material	ABS
Installation	DIN Rail / Wall-Mounted

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Specifications

Product Name: Soil Moisture Sensor – Modbus SM3-ECO

Application: Accurate soil moisture measurement and data transmission via the Modbus protocol for smart irrigation management and climate control in greenhouses and farms.

Communication Protocol: Modbus RTU (RS485)

Manufacturer: RAYA Technology - iCMAN

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Description

In greenhouses, orchards, and agricultural fields, measuring soil moisture is one of the most critical parameters. Accurate soil moisture monitoring plays a key role in plant growth and efficient water management.

The SM3-ECO sensor measures the relative moisture content of the soil using a dedicated probe. It provides output as a percentage, indicating how much moisture the soil retains.

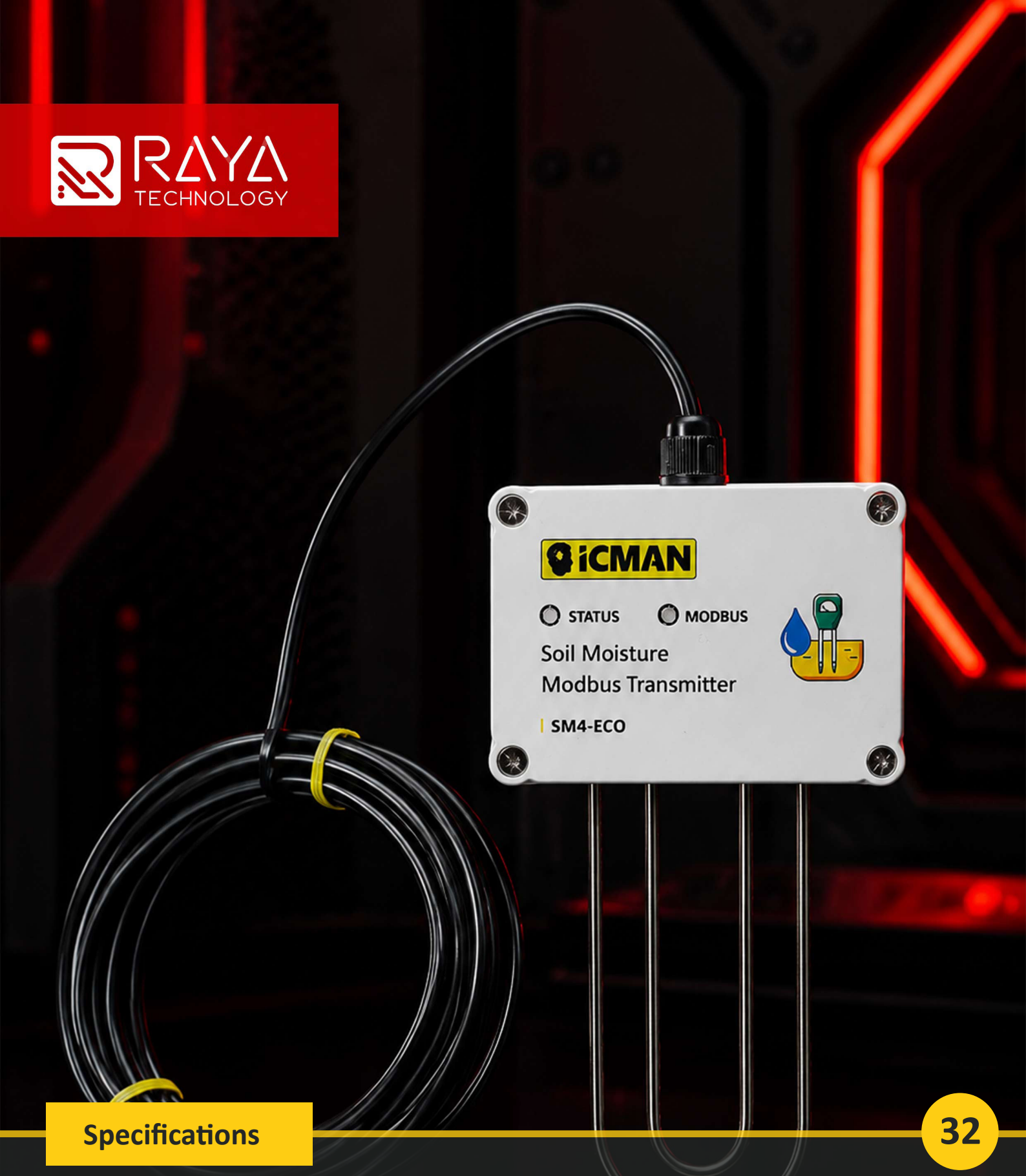
This sensor transmits data via RS-485 communication using the Modbus RTU protocol, making it compatible with a variety of industrial systems such as PLCs, DCSs, RTUs, and more.

* Essential for smart irrigation systems and greenhouse climate control, the SM3-ECO is a vital component in modern, sustainable agriculture.

Technical specifications
Suitable for smart irrigation systems
Suitable for greenhouse climate control systems
Modbus software protocol (Modbus RTU) (over RS-485 network)
Moisture measurement range: 0 to 100%
Professional waterproof enclosure with IP64 rating
Compatible with all types of PLCs

General Specifications	
Box Dimensions	131 * 68 * 49 mm
Probe fork length	16 cm
Probe material	stainless steel (grade 304)
Enclosure Material	ABS
Installation	DIN Rail / Wall-Mounted

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Specifications

Product Name: Modbus Soil Moisture Sensor – Model SM4-ECO

Application: Underground (buried) soil moisture monitoring (up to 50 cm) and data transmission via Modbus RTU for smart irrigation and climate control in greenhouses and farms.

Communication Protocol: Modbus RTU (RS485)

Manufacturer: RAYA Technology - iCMAN

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Description

In greenhouses, orchards, and farmlands, one of the most critical parameters is measuring soil moisture levels. Monitoring soil moisture plays a vital role in both plant growth and efficient water management. This sensor measures the relative soil moisture percentage using a dedicated probe. It communicates this data via RS-485 using the Modbus RTU protocol, making it suitable for integration with PLCs, DCSs, RTUs, and other industrial systems.

This buried-type sensor is designed to be installed directly into the soil, providing high resistance to moisture, dust, and external elements. Since soil moisture can vary at different depths, the sensor is buried at a depth selected based on plant type and soil composition, ensuring precise measurement where the roots need it most.

*Essential for smart irrigation systems and climate control in greenhouses.



Technical specifications
Modbus-RTU software protocol (over RS-485 network)
Moisture measurement range: 0 to 100%
Moisture measurement error: ±5%
Professional waterproof enclosure with IP67 rating
Maximum operating depth: up to 50 cm
Housing material: ABS
Electrode type: stainless-steel electrode

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Chapter 3

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