



SMART COMMUNICATION

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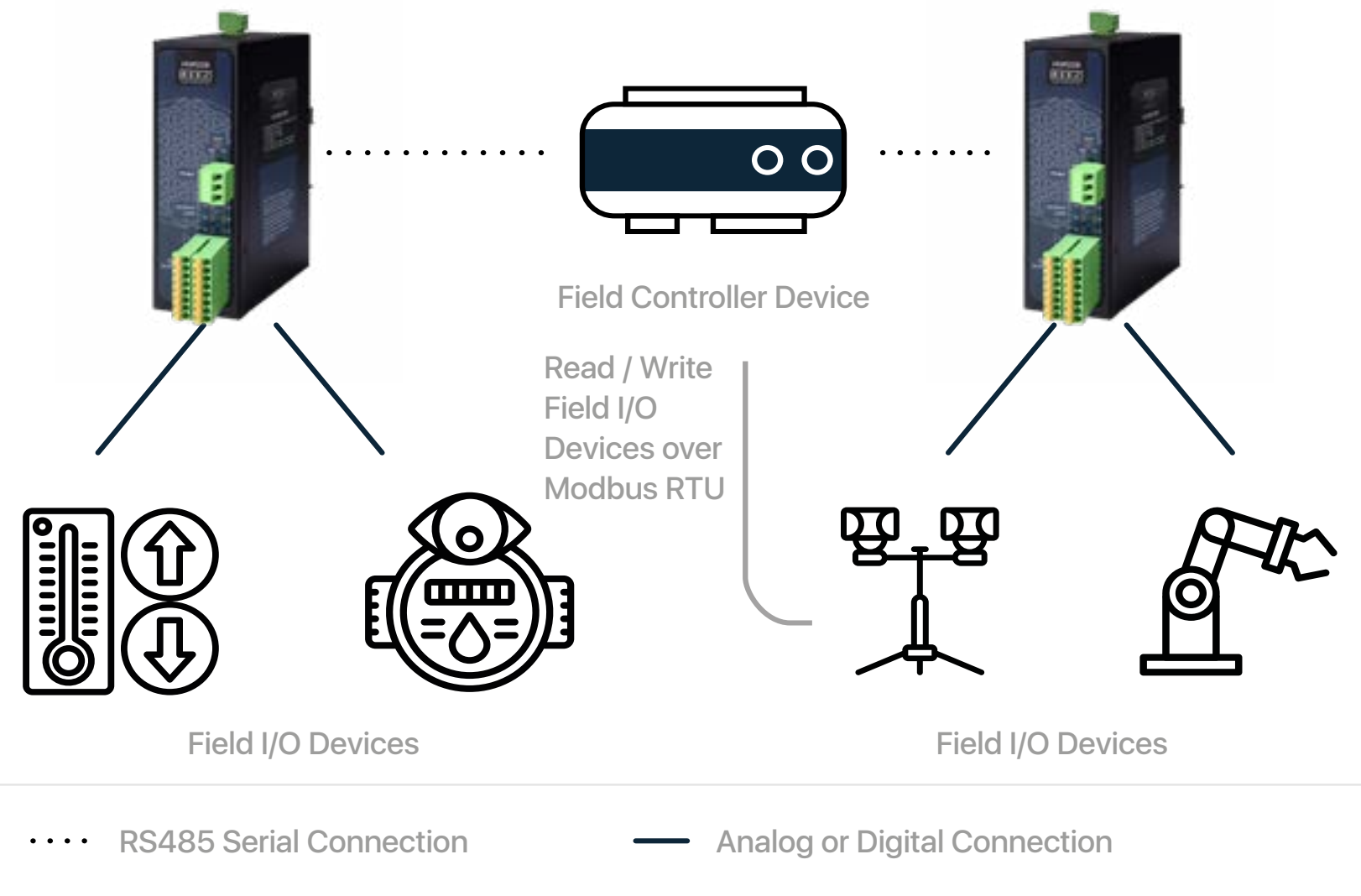
HUR228 Modbus RTU Remote I/O Device

with 8 Channel Digital 5 Amps
250 V AC / 30 V DC Relay Output and 1 × RS485



Main Features

- Device Address changeable with Modbus RTU commands
- Output Configuration can be defined by user for restart with Modbus Commands
- Output Values can be saved and Applied After Auto Restart
- Easy to Monitor Device Parameters such as Device Up Time, Modbus RTU read counter etc. with Modbus Commands
- Supports Modbus RTU Protocol over RS485 with 19200 8N1 Data Type
- Easy to Use Test and Parameter Change Software with Free C# codes
- Easy Firmware Upgrade over Serial Line
- 90 - 265 V AC (100 – 370 V DC), 47Hz to 63Hz AC wide range power input
- Wide operating temperature range from -25 to 70 °C
- Rugged Metal IP-40 housing design
- DIN-Rail mounting



Technical Specifications

Modbus RTU Characteristics

HUR Series Modbus RTU Remote Input/Output (I/O) Devices are designed for facilities of rugged industry and infrastructure.

HUR Series Modbus RTU Remote I/O Devices are tailored to perform various features such as wide temperature, wide range power input range... etc. HUR Series Modbus RTU Remote I/O Devices offers different I/O combinations, which provide greater flexibility and are compatible with many different applications. Easy to use test and parameter change software available and C# code for device driver can be shared with end client. HUR Series Modbus RTU Remote I/O Devices are the perfect choice for establishing a cost-effective remote I/O system.

Protocol	<ul style="list-style-type: none">• Modbus RTU• 19200 8N1
Modbus RTU Address	<ul style="list-style-type: none">• Default value is 0x01• Changeable via Modbus Command
Save Output Values Before Auto Restart	<ul style="list-style-type: none">• Default is enabled and when system auto resets (every 24 hour) the values are saved and applied after restart• Changeable via Modbus Command
Save Output Values and Apply on Power Up	<ul style="list-style-type: none">• Default is disabled, user can activate and enter parameters for each output individually• Changeable via Modbus Command
Monitoring Parameters	<ul style="list-style-type: none">• Modbus RTU Read counter• Time counter (in seconds)• FW version• available via Modbus Commands

Output Connectors and Indicators

Output Connectors	<ul style="list-style-type: none"> Terminal Connector for Digital Outputs 8 Channel Output terminals and polarity is not important. 2 pins for each connection and total 16 connection pins
Output Channel Ratings	Maximum 5 Amperes 250 V AC / 30 V DC for each channel
Isolation	<ul style="list-style-type: none"> 3kV dielectric strength (between coil and contacts) Meets IEC61131-2 reinforce insulation
Output Status LEDs	Shows which pin is ON (conducting) and OFF (cut off) for Digital Outputs

Firmware Upgrade

Upgrade over Serial Line	Available from RS485 Serial Line
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Interface and Indicators

RS485 Connector	Terminal Connector for 2 wire RS485 connection and GND
Activity LEDs	<ul style="list-style-type: none"> Tx LED: Flashes when the device sends Modbus RTU packages Rx LED: Flashes when the device receives Modbus RTU packages
System LED	Flashes during normal operation



Power

Input Range	90 - 265 V AC (100 – 370 V DC), 47Hz to 63Hz AC input
Isolation	Fully Isolated > 4200 Vrms, 5 mA 1 Min Insulation: Class II

Physical and Environmental Characteristics

Enclosure	Metal, IP 40
Dimensions	43 × 95 × 124 (w × d × h) mm
Weight	~ 380 gr
Storage Temperature	- 40 to 105 °C
Operating Temperature	- 25 to 70 °C
Operating Humidity	5 % to 95 % Non-condensing



Ordering Information

**HUR228: 8 Channel Digital 5Amps 250 V AC / 30 V DC
Relay Output Modbus RTU Remote IO Device, 1 × RS485,
90–265 V AC (100–370V DC), 47 Hz to 63 Hz AC Power Input**

Product Selection

Model	5 – 60V DC Power input	90 - 265V AC (100 – 370V DC), 47 Hz to 63 Hz AC Power Input	1 × RS485 port	8 Channel 5-275V AC-DC, 100mA Digital Optocoupler Output	8 Channel Digital 5Amp. Relay Output	8 Channel 12-275 AC-DC, 60mA Digital Optocoupler Input	8 Channel 0-10V and 0-20mA Selectable Analog Input	5 Channel 4-20mA Analog Output
HUR118	●		●	●				
HUR128	●		●		●			
HUR218		●	●	●				
HUR228		●	●		●			
HUR318	●		●			●		
HUR418		●	●			●		
HUR518	●		●				●	
HUR555	●		●					●
HUR618		●	●				●	
HUR655		●	●					●

