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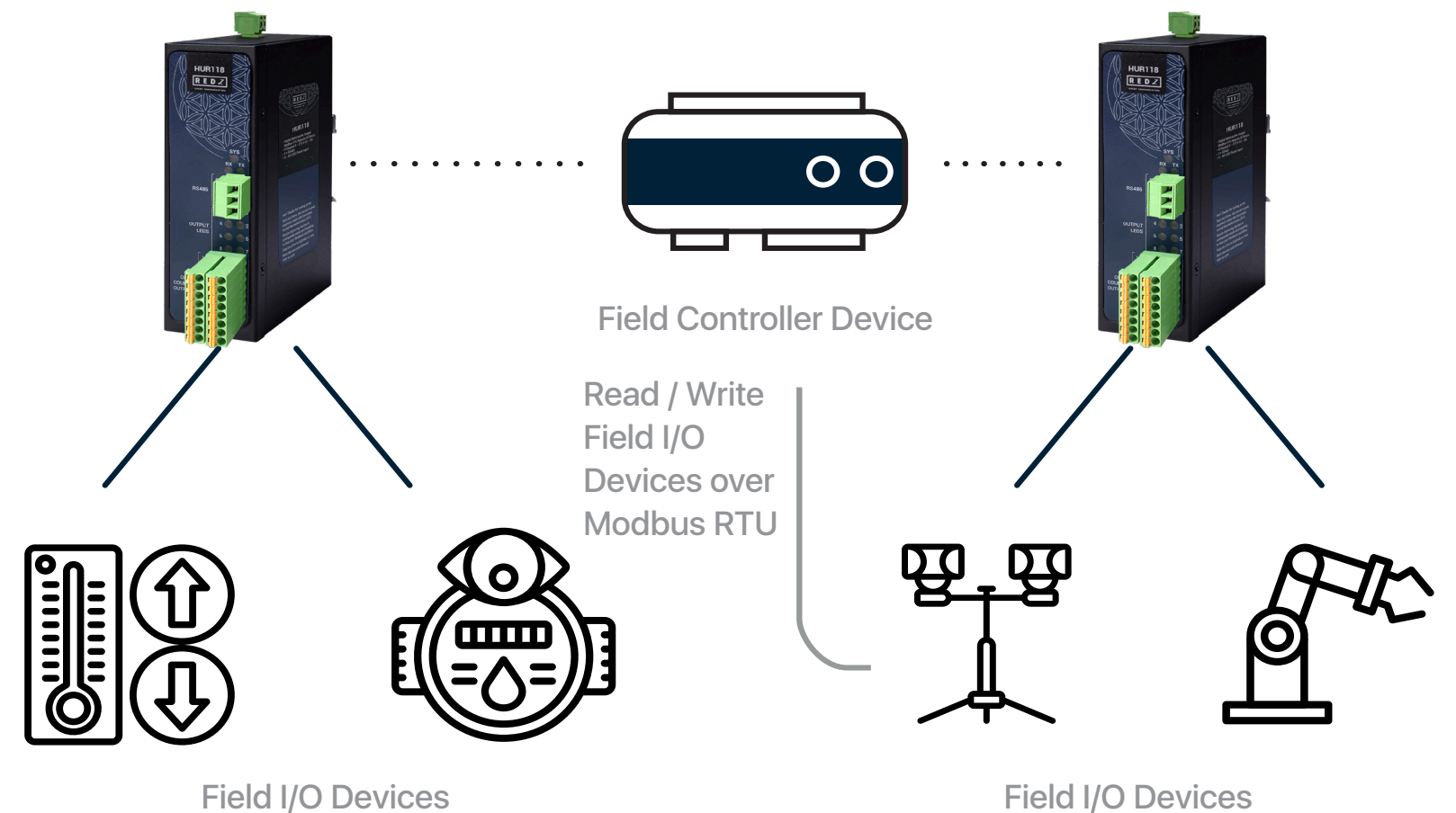
HUR118 Modbus RTU Remote I/O Device

with 8 Channel 5-275V AC-DC,
100mA Digital Optocoupler Output and 1 x 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
- 5-60V DC wide range power input
- Wide operating temperature range from -40 to 85 °C
- Rugged Metal IP-40 housing design
- DIN-Rail mounting



..... RS485 Serial Connection

— Analog or Digital Connection

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.

Technical Specifications

Modbus RTU Characteristics

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	5-275 V AC-DC, 100 mA Digital Optocoupler Outputs
Isolation	3750 Vrms for 1 min
Over Voltage Protection	<ul style="list-style-type: none">• 275 V• Non-repetitive peak on-state pulse current: 80A
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	5-60 V DC input
Reverse Polarity Protection	Available
Thermal Shutdown and Current Limit Protection	Available

Physical and Environmental Characteristics

Enclosure	Metal, IP 40
Dimensions	43 × 95 × 124 (w × d × h) mm
Weight	~ 380 gr
Storage Temperature	- 65 to 150 °C
Operating Temperature	- 40 to 85 °C
Operating Humidity	5 % to 95 % Non-condensing



Ordering Information

HUR118: 8 Channel 5-275V AC-DC, 100mA Digital
Optocoupler Output Modbus RTU Remote I/O
Device, 1 × RS485, 5-60V DC 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		●	●					●