



SMART COMMUNICATION

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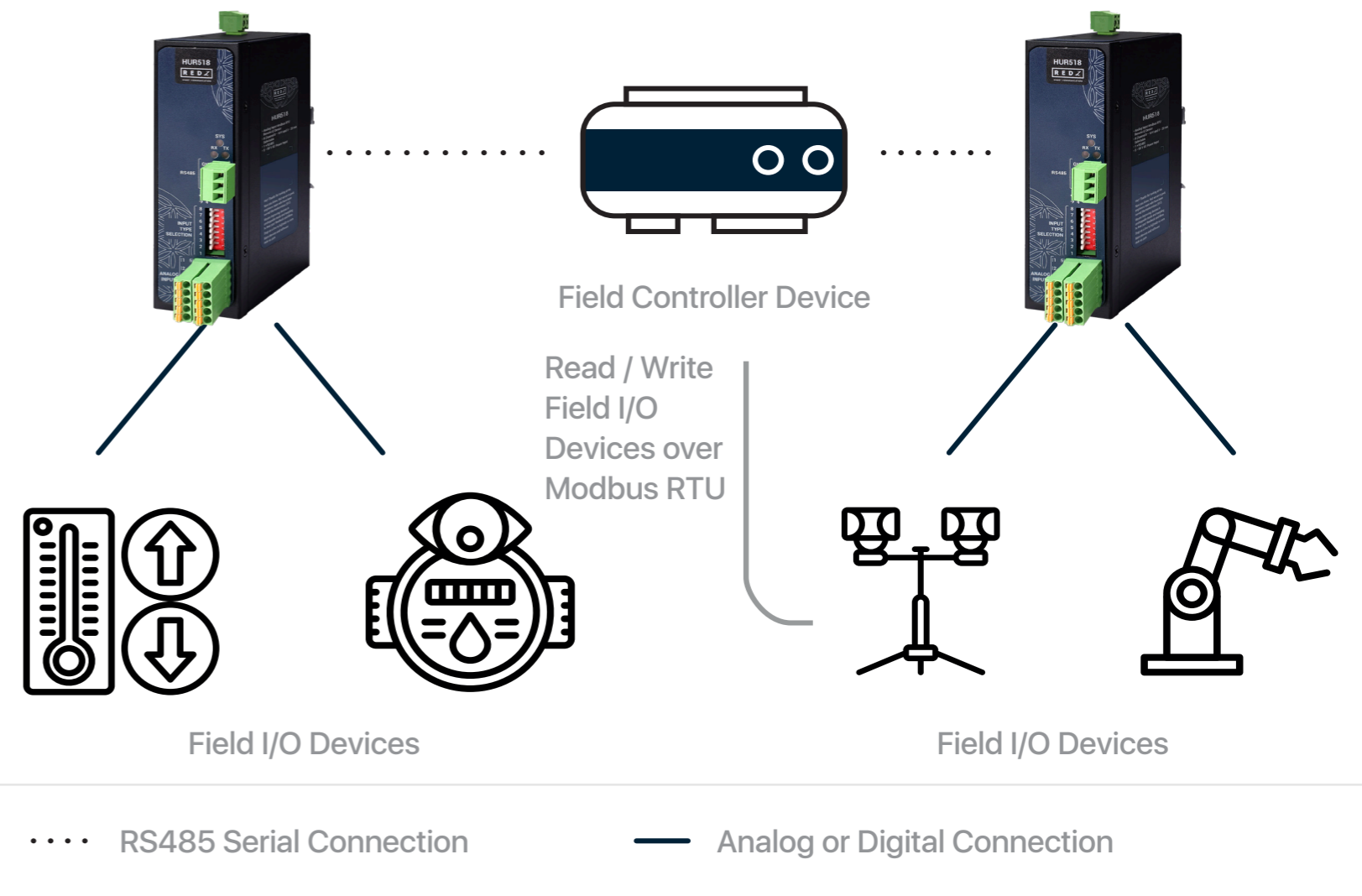
HUR518 Modbus RTU Remote I/O Device

with 8 Channel 0–10 V and
0–20 mA Selectable Analog Input and 1 × RS485



Main Features

- Device Address changeable with Modbus RTU commands
- 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



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
Monitoring Parameters	<ul style="list-style-type: none">• Modbus RTU Read counter• Time counter (in seconds)• FW version• available via Modbus Commands

Input Connectors and Indicators

Input Connectors

- Terminal Connector for Analog Inputs
- 8 Channel Input terminals and polarity is important. All inputs references to Common point. 2 Common points and 8 Analog Inputs total 10 connection pins

Input Channel Ratings

0-10 V and 0-20 mA Selectable Analog Inputs

Analog Input Features

16-bit resolution with no missing codes
Throughput: 250 kSPS

Operation Mode Selection Switches

- 8 pin Switch to select operation mode of each Analog Input either 0-10V or 0-20mA
- Switch Position OFF: 4-20mA
- Switch Position ON: 0-10V

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

- 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 5-60V 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

HUR518: 8 Channel 0-10 V and 0-20 mA Selectable Analog Input Modbus RTU Remote IO Device, 1 × RS485, 5-60 V 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		●	●					●

