HUR555 Modbus RTU Remote I/O Device

with 5 Channel 4–20 mA Analog Output
and 1 × RS485

HUR555

REDZ
SMART COMMUNICATION
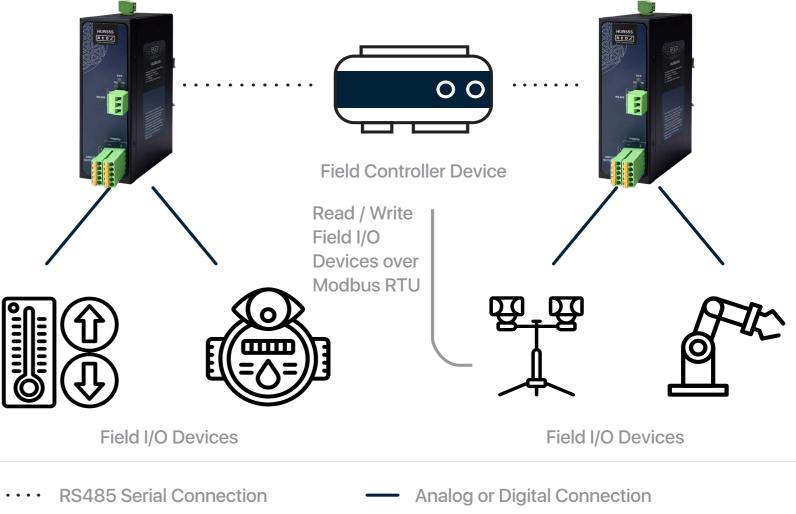
HUR555

- Analog Output Modbus RTU Remote I/O Device
- 5 Channel 4 - 20 mA
- 1 × RS485
- 5 – 60 V DC Power Input

SYS
RX   TX

RS485   GN
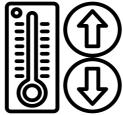
Hey! Thanks for looking at me.
Now you know, that we are a geek
engineers team who have been
served the market since 2013.
We are improving devices in
unstoppable mode and tempting
to hear your feedback and ideas.
Drop us a line to hi@redz-sc.com
More devices and software:
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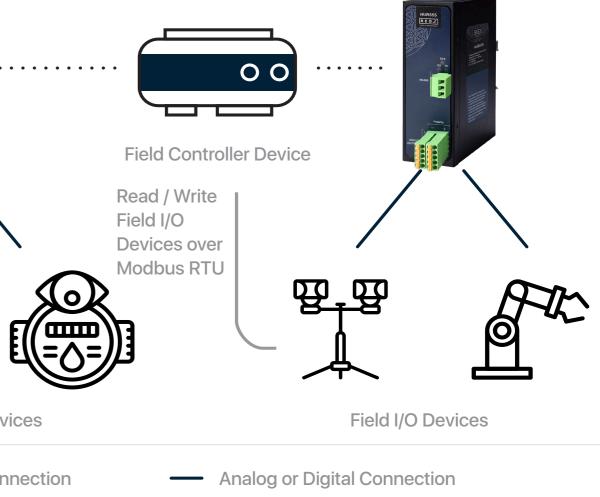
Polarity
−   +

ANALOG
OUTPUT

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 ℃
- Rugged Metal IP-40 housing design
- DIN-Rail mounting

Field Controller Device

Read / Write Field I/O Devices over Modbus RTU

Field I/O Devices

Field I/O Devices

···· RS485 Serial Connection —— Analog or Digital Connection

Technical Specifications

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.

Modbus RTU Characteristics

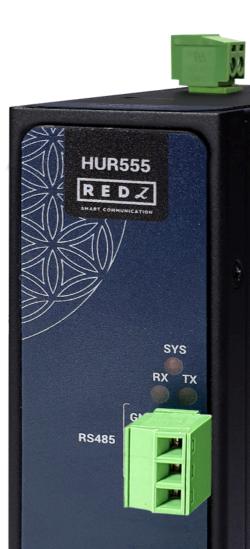|	
Protocol	• Modbus RTU • 19200 8N1
Modbus RTU Address	• Default value is 0x01 • Changeable via Modbus Command
Save Output Values Before Auto Restart	• Default is enabled and when system auto resets (every 24 hour) the values are saved and applied after restart • Changeable via Modbus Command
Save Output Values and Apply on Power Up	• Default is disabled, user can activate and enter parameters for each output individually • Changeable via Modbus Command
Monitoring Parameters	• Modbus RTU Read counter • Time counter (in seconds) • FW version • available via Modbus Commands

Output Connectors and Indicators

Output Connectors	• Terminal Connector for Digital Outputs • 5 Channel Output terminals and polarity is important. 2 pins for each connection and total 10 connection pins
Output Channel Ratings	4-20mA Analog Outputs designed for 24V 250ohm load or 12V 125ohm load
Over Voltage Protection	40 V

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

Firmware Upgrade

Upgrade over Serial Line	Available from RS485 Serial Line

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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 ℃
Operating Temperature	- 40 to 85 ℃
Operating Humidity	5 % to 95 % Non-condensing

Ordering Information

HUR555

5 Channel 4-20mA Analog Output Modbus RTU Remote IO 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		●	●					●