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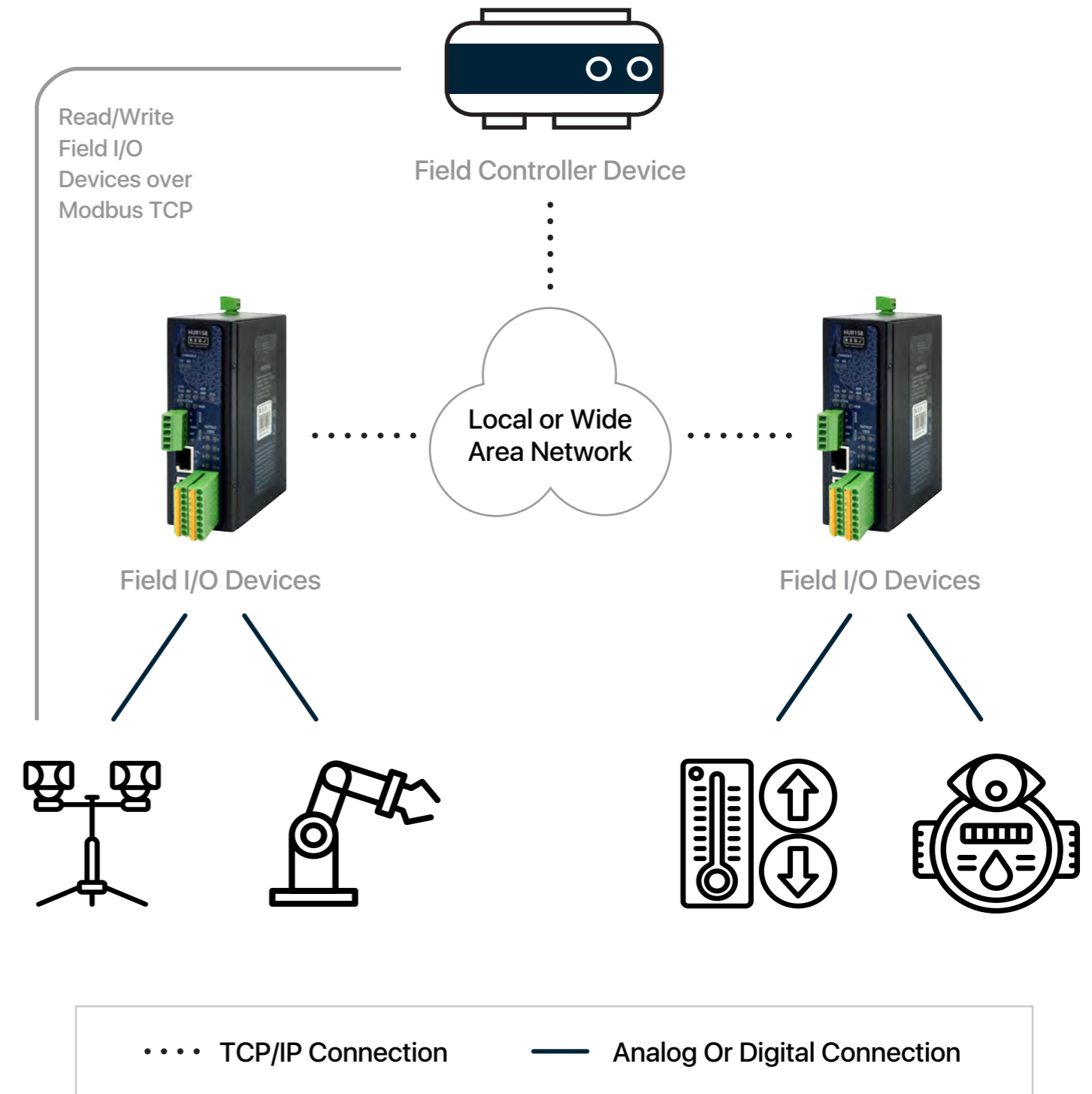
# HUR458 Modbus TCP Remote I/O Devices

with 8 Channel 12-275V AC-DC,  
60mA Digital Optocoupler Input  
and 2 x 10/100Base-T(x) Ports,  
1 x RS232 and 1 x RS485 Serial Ports



# Main Features

- Supports 2 x 10/100Base-T(X) ports
- Supports Full/Half-Duplex, auto MDI/MDI-X on each port
- Supports 1 x RS232 and 1 x RS485 Serial Connection up to 921600 Baud
- Embedded web interface for ease of use
- Instant switch between Server-Client Operating Modes with buttons
- Up to 10 client connection in Server Mode
- DHCP Server Capability
- Easy to follow Device Status on web interface
- Device Address changeable via web interface
- Modbus TCP to RTU Gateway functionality for Modbus packages with different addresses (Different than device own address)
- Easy to follow Device Parameters such as Device Up Time, Modbus read counter etc. on web interface
- Easy to follow Serial and Ethernet data packages on web interface
- Black List and White List based IP Filter in TCP Server Mode
- Firmware Upgrade over Web
- 2 firmware storage capability on same device (1 active only)
- 100 - 240V AC (120 - 370V DC), 50Hz to 60Hz AC wide range power input
- Wide operating temperature range from -30 to 70 °C
- Rugged Metal IP-40 housing design
- DIN-Rail mounting



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

HUR Series Modbus TCP Remote I/O Devices are tailored to perform various features such as wide temperature, wide range power input range... etc. HUR Series Modbus TCP Remote I/O Devices offers different I/O combinations, which provide greater flexibility and are compatible with many different applications that makes them the perfect choice for establishing a cost-effective remote I/O system.

## Technical Specifications

### ETHERNET SWITCH TECHNOLOGY

#### Ethernet Standards

- IEEE 802.3 for 10Base-T
- IEEE 802.3u for 100Base-T(X)
- IEEE 802.3x Flow Control

#### Mac Table

- 1K MAC address entry

#### Processing

- Store-and-Forward

#### Memory

- 448K bits packet
- buffer memory

## MODBUS TCP CHARACTERISTICS

<b>Modbus Protocol</b>	<ul style="list-style-type: none"><li>• Modbus TCP</li></ul>
<b>Modbus Address</b>	<ul style="list-style-type: none"><li>• Default value is 0x01</li><li>• Changeable via Web Interface</li></ul>
<b>Modbus TCP to RTU Gateway Functionality</b>	<ul style="list-style-type: none"><li>• Modbus TCP packages with different addresses (Different than device own address) converted to Modbus RTU and sent to Serial interface and serial packages received are sent to Ethernet side after converting to Modbus TCP</li></ul>
<b>Monitoring Parameters</b>	<ul style="list-style-type: none"><li>• Modbus Read counter</li><li>• Time counter (in seconds)</li><li>• FW version</li><li>• Device Up Time</li><li>• Serial and TCP packages</li></ul>

## CONNECTORS AND PORTS

<b>Console Port</b>	Micro USB connection for LOG in 115200 baud
<b>10/100T(X) RJ45 Ports</b>	Ethernet Connection on 2 ports
<b>Serial Ports</b>	<ul style="list-style-type: none"><li>• 5 pin wired Terminal Connection</li><li>• Tx, Rx, GND for RS232</li><li>• A and B for RS485</li></ul>
<b>Reset Buttons</b>	Reset to Client and Reset to Server Operating modes buttons

## I/O CONNECTORS AND INDICATORS

### I/O Connector

- Terminal Connectors  
Digital Inputs: 8 Channel Input Terminals, polarity is not important  
Total 16 connection pins.
- 12-275 AC-DC, 60mA Digital Optocoupler Input

### Isolation

- Digital Optocoupler Input: 4470Vrms 1min

### Over Voltage Protection

- Digital Optocoupler Input: 275V

## LED INDICATORS

### Power indicator

Power LED

### 10/100T(X) Indicators

Activity LEDs: ETH1, ETH2 and HUR (Activity of device itself)

### System Indicators

Status LED, Tx and Rx of data LEDs and Server LED  
(LED ON: Server Operating Mode, LED OFF: Client Operating Mode)

### System LED

Flashes during normal operation of I/O module

### Console Indicators

Tx and Rx of data LEDs





## POWER

<b>Input Range</b>	100 - 240V AC (120 - 370V DC), 50Hz to 60Hz AC input
<b>Reverse Polarity Protection</b>	Withstand Voltage: 3kV AC Isolation Resistance: 100M Ohms / 500V DC / 25 °C / 70% RH
<b>Thermal Shutdown and Current Limit Protection</b>	115% ~ 190% rated output power Protection type: Hiccup mode, recovers automatically after fault condition is removed

## PHYSICAL AND ENVIRONMENTAL CHARACTERISTICS

<b>Enclosure</b>	Metal, IP 40
<b>Dimensions</b>	43 x 95 x 124 (w x d x h) mm
<b>Weight</b>	~380gr
<b>Storage Temperature</b>	-40 to 85 °C
<b>Operating Temperature</b>	-30 to 70 °C
<b>Operating Humidity</b>	10% to 95% Non-condensing

# Ordering Information

**HUR458:** 8 Channel 12-275 AC-DC, 60mA Digital Optocoupler Input Modbus TCP Remote IO Device, 2x 10/100 T(x) ETH ports, 1 x RS232 & 1 x RS485, 100 - 240V AC (120 - 370V DC), 50Hz to 60Hz AC Power Input

## PRODUCT SELECTION

Model	5-48V (max. 60V) DC Power input	100 - 240V AC (120 - 370V DC), 50Hz to 60Hz AC Power Input	2 x 10/100 T(x) ETH ports	1 x RS232 and 1 x RS485 Serial Ports	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
HUR158	●		●	●	●				
HUR168	●		●	●		●			
HUR258		●	●	●	●				
HUR268		●	●	●		●			
HUR358	●		●	●			●		
HUR458		●	●	●			●		
HUR558	●		●	●				●	
HUR595	●		●	●					●
HUR658		●	●	●				●	
HUR695		●	●	●					●