

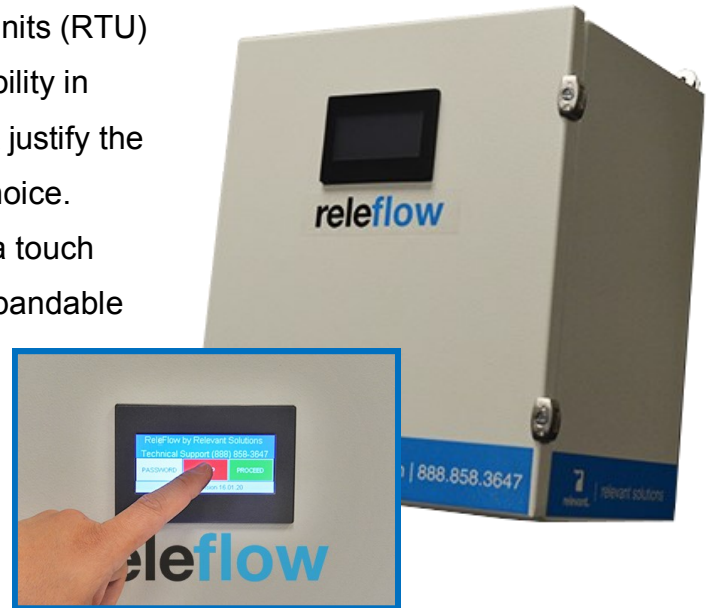
# RELEVANT SOLUTIONS RELEFLOW

## RTU & FLOW COMPUTER



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Relevant Solutions offers Releflow Remote Transfer Units (RTU) and flow computer for measurement and control capability in remote installations. If you don't have power or cannot justify the cost of a PLC for DCS, Releflow RTU is the optimal choice. Based on Honeywell's RTU2020, Releflow combines a touch screen configuration, fast processor, on-board and expandable memory and 28 mixed I/O. Releflow can be packaged with wireless communication, batteries and charger, and a solar panel for fully independent operation. Releflow is easily integrated with DCS and SCADA systems such as Honeywell's Experion family.



### Releflow Features

- Touch Screen Configuration
- AGA, API & ISO Metering Calculation Libraries
- Four Serial & Two Ethernet Ports
- On Board & Removable Memory
- Modbus & DNP Protocols Supported
- Flash or SD Card Datalogging Support
- HART Analog I/O, 24VDC Digital I/O
- Hazardous Area Compliant

### Releflow Options

- I/O Expansion Module
- Wireless Ethernet Radio
- Line or Solar Power w/ Battery Back-up
- Voltage Regulator or DC UPS

### Typical Applications

- Oil or Gas Wellhead Monitoring & Control
- Compressor Monitoring & Control
- High Pressure Gas Injection
- Gas Metering
- Wastewater Monitoring
- Lift Station Monitoring
- Pipeline & Pump Station Monitoring
- Any Remote Monitoring & Control Application



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### Releflow Performance Specifications

CPU	Dual Core ARM Cortex-A9 Core (32 Bit), 667 MHz
CPU Watchdog	CPU Auto-Resets upon error detection, LED Flashes
Dynamic RAM	128 Mbytes
Program Memory (Flash)	32 MBytes
Non-Volatile Memory	4 MBits
Non-Volatile Memory Life	20+ Years (No Battery)
SD Card Support	32GB Class 6 / Class 10
Real-Time Clock Resolution	1 ms
Execution Cycle Time	>= 50 ms
Time Synchronization	STNP or DNP3
Programming Port	Ethernet
Datalog Media	Flash Memory or Optional SD Card
Datalog Rate	Configurable 1 second to 1 hour
Datalog Timestamp Resolution	1 ms

### Environmental

Enclosure	NEMA-4, NEMA-3 Battery Compartment (Solar Option Only)
Temperature	-40°F to 167°F (-40°C to 75°C)
Humidity	5% - 95% RH Continuous, (Non-condensing)
Area Class	Cl. 1, Div. 2, Grp. A-T T4

### Physical

Dimensions	Standard Kit - 16"H x 14"W x 10"D Solar Option* - 40"H x 16"W x 12"D
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\* Cabinet Only. Solar array size will vary with application.

### Electrical Ratings

Voltage	18-30 VDC, Approximately 2W
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### Releflow I/O Specifications

#### Analog Inputs (8, Single Ended)

Range	4 - 20 mADC or 1 - 5 VDC, SW Configurable
Resolution	16 Bit
Accuracy	+/- 0.1% @ 25C, +/- 0.3% -40° to 75°C
Repeatability	+/- 0.05%

#### Analog Outputs (2 Source)

Range	20.4 - 26.4 VDC
Resolution	12 Bit
Accuracy	+/- 0.1% @ 25C, +/- 0.3% -40° to 75°C
Repeatability	+/- 0.1%

#### Digital Inputs (10, Sink)

Range	0 - 20mADC / 4 - 20 mADC
Guaranteed ON Voltage	16 Bit
Guaranteed OFF Voltage	250 Ohms

#### Digital Outputs (6, Sink)

Range	24VDC +/- 10%
ON State Voltage	24VDC Typical
OFF State Voltage	Max 1VDC
Maximum OFF State Leakage	100uA

### Communication

Ethernet (2)	10/100BaseTx, Auto-Detecting Shielded RJ45 Connector, Auto-Crossover TCP/IP, ARP, UDP, DHCP, Modbus TCP, Enron Modbus, DNP3, TCP, HART-IP
Serial (2 RS232, 2 RS485)	Baud Rate Configurable 300 - 115200 RJ45, Full Duplex Modbus RTU Master/Slave, Modbus ASCII Master/Slave, Enron Modbus Slave



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