

Krohne Summit 8800 Gas Flow Computer for SONAR Flow Meters

The Krohne Summit 8800 flow computer paired with a SONAR flow meter and Expro Meter's off-the-shelf software configuration provides gas rates at standard conditions based on SONAR flow meter, flow line pressure and flow line temperature measurements, along with customer-supplied gas composition. The Krohne Summit 8800 interfaces to either an ActiveSONAR™ or PassiveSONAR™ flow meter and can acquire pressure and temperature from flow line mounted instrumentation or from the customer DCS/SCADA system via Modbus serial, Modbus TCP, or 4-20mA interfaces. Gas compositional information is input into the system via the touchscreen user interface or via Modbus serial or Modbus TCP. The unit displays measurement data as well as computed flow rates. Measurement data and results can be transferred to the customer's DCS /SCADA system via Modbus serial, Modbus TCP, or 4-20mA interfaces.



Standard configuration features

- Dry Gas actual to standard conversion using AGA8
- ActiveSONAR™ or PassiveSONAR™ flow meter inputs
- 4-20mA outputs for flow rate at standard conditions, line pressure and line temperature
- RS-485 Modbus serial or Modbus TCP slave interface to customer
- Pressure and Temperature are input via 4-20mA inputs, Modbus serial, Modbus TCP or touchscreen
- AGA8 Gas Composition input via Modbus serial, Modbus TCP or touchscreen
- Flow rate at actual and standard conditions displayed in both US and Metric units – selectable via touchscreen
- Reference Pressure and Temperature are adjustable via touchscreen
- Select SONAR meter diagnostic parameters available via display, Modbus serial, and Modbus TCP
- Hardware and software to support single well input/output

Customization (discuss with Expro Meters)

- Expandable from 1 well to 4 wells with custom configuration files and additional hardware input/output modules
- Additional functionality via custom programming
- Ability for customer to modify configuration and add features using programming software (requires programming software and training)

Gas Flow Computer for SONAR Flow Meters

Technical specifications:		
Parameter	Specifications	Comments
Input Voltage Range/Power	+24VDC +/-10%, 9.5W Typical	
Storage Temperature	-25°C to +70°C	
Operating Temperature	0°C to +50°C	
Humidity	0% to 80% RH, non-condensing	
Enclosure Rating	IP20, Indoor Use Only	
4-20mA Analog Inputs	2 of 4 configured	
4-20mA Analog Outputs	3 of 3 configured	
RS-485 Modbus Serial Ports	1x SONAR 1x Customer I/O	
Ethernet Modbus TCP Ports	1x Customer I/O	
+24VDC Power Outputs	3	Total current <200mA
Dimensions (h x w x d)	130 mm x 210 mm x 240 mm (5.1" x 8.3" x 9.4")	
Mounting	19" rack or panel mount	Mounting hardware and rack customer supplied
Display	5.7" Color Graphical Touchscreen	
Weight	2.1kg (4.63 lb)	
Analog Inputs (4-20mA)		
Range	4-20mA	
Input Resistance	100 ohms	
Resolution	20 bits	
Accuracy	0.01% FS at 20°C	
Analog Outputs (4-20mA)		
Range	4-20mA	
Maximum Load Impedance	750 ohms	
Resolution	16 bits	
Accuracy	+/-30 uA	
Modbus RS-485 Serial		
RS-485 Port Type	2-wire, half-duplex	Galvanically isolated
Modbus Type	SONAR Port – Master Customer Port – Slave	
Termination	220 ohm shunt with 470 ohm PU/PD	Jumper selectable
Max Baud Rate	38,400	
Format	RTU (default) or ASCII	
Connector	RJ45	
Modbus TCP Ethernet		
Port Type	TCP (10/100 Ethernet)	
Modbus Type	Slave	
Format	RTU	
Connector	RJ45	