COX INSTRUMENTS
FLOW MEASUREMENT

Proven Performance for Over 50 Years

COX 4061 Gas Flow Computer

COMPENSATED VOLUME AND MASS FLOW CALCULATION

FEATURES

- Two line by 20 character super twist back-lit LCD Display
- 16 point linearization
- Displays compensated rate and total flow
- Takes a direct 100Ω platinum RTD
- Flow rate, temperature and pressure alarms
- 4-20 mA and pulse output based on compensated flow
- Non-volatile memory
- 24 V excitation provided
- Front panel NEMA 4X/IP 65 rated

DESCRIPTION

The COX Gas Flow Computer is a microprocessor-based instrument designed to measure compensated flow in an industrial environment. Three analog inputs for temperature, pressure and flow are provided to measure the parameters needed to calculate the actual compensated mass volume AND flow.

Special signal conditioning circuitry is included to allow direct connection of platinum resistance temperature detectors (RTD's). A high speed digital input is provided to interface with pulse output type flowmeters. As an alternative, voltage inputs or current loops can be used for the above.

15555 North 79th Place • Scottsdale, AZ 85260 • tel: (480) 922-7446 • fax: (480) 948-3610 • www.cox-instruments.com

COX 4061 Gas Flow Computer

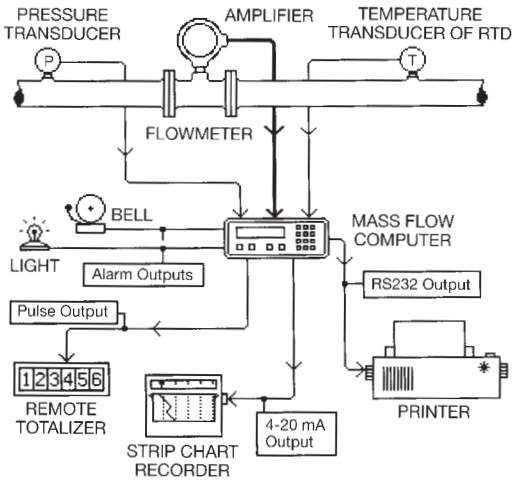
COMPENSATED VOLUME AND MASS FLOW CALCULATION

Unit Specifications	
Overall Accuracy	0.25%
Environmental	Operating Temperature: 32° to 122° F (0° to 50° C)
Storage Temperature	-10° to 160° F (-23° to 71° C)
Power	Nominal Line Voltage: 100, 110, 220 or 240 VAC (50/60 Hz)
Power Consumption	10 Watts max
Analog Inputs	Range: 0-20mA, 4-20mA
Voltage Inputs	Range: 0-5V, 0-10V
Temperature Inputs	Compatible RTD type: 100Ω Platinum Lead Wire Compensation: 4 Wire Configuration: 2, 3 or 4 Wire
Digital Flow Inputs	Range: 3-30 VDC, sink only. Max Input Frequency: 40kHz max Min pulse width: 10µsec (with 40kHz filter) Thresholds: OFF is less than 2.0V; ON is greater than 2.5V Load Type: Non Inductive Update Rate: 1Hz
Relay Outputs	Type: Dry Contact, Form C Contact Rating: 10A @ 115/230VAC/28VDC
Auxiliary Power Outputs	(AC powered units only) Voltage: 24VDC regulated and filtered Isolation: 230VAC max Current: 0 to 100mA Protection: Short Circuit Proof
Digital Flow Pulse Output	This output intended to drive a counter with a minimum input impedance of 1,000Ω. It is compatible with TTL and 5VCMOS logic inputs. It is slew rate limited to help prevent RFI.
Analog Output	4-20 mA, 3-24 VDC ACC: ± .5% F. S. update = 1Hz
Output High Voltage:	No Load: 4.5 Volts min 4.0 mA Source: 4.0 Volts min
Output Low Voltage:	No Load: 0.2 Volts max 4.0 mA Sink: 1.0 Volts max
Output Waveform:	Symmetric square wave above 1 Hz and 100msec pulse below 1Hz
Frequency Range:	0 to 50kHz
Max Slew Rate:	27 Volts/µsec
Sustained Fault Voltage for no permanent damage:	7 Volts

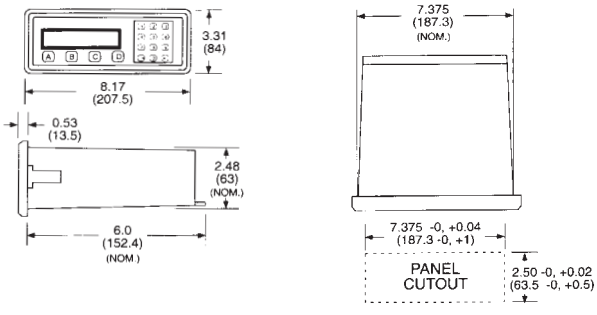
FLOW COMPUTER APPLICATION

- Pressure transducer sends 0-5 V signal to Flow Computer.
- 100Ω RTD direct hook-up to Flow Computer.
- Turbine flowmeter sends digital signal to Flow Computer.
- Flow Computer calculates flow and generates output signals.
- 5 V pulse out to remote totalizer in supervisory area.
- 4-20 mA out to strip chart recorder tracks trends.
- Alarm relays activate bell and/or light as needed.

4061 APPLICATION



DIMENSIONS



For more information, contact COX Instruments or your local COX Instruments representative.

COX INSTRUMENTS
FLOW MEASUREMENT

Proven Performance for Over 50 Years

15555 North 79th Place • Scottsdale, AZ 85260
tel: (480) 922-7446 • fax: (480) 948-3610
www.cox-instruments.com

©2007- Cox Instruments 244-500 201TC3