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for Over 50 Years*

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## COX 4010 and 4020 Flow Computers

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The COX Series 4000 Flow Computer is an integral part of a complete system from Cox which provides the most accurate flow metering capabilities in the industry. Its state-of-the-art electronics automatically compensate for nonlinearity caused by high fluid viscosity, and nonlinearity inherent with LO FLO meters, thus maintaining the calibrated accuracy of the turbine meters over their entire flow ranges.

### **Key features for both Models 4010 and 4020:**

- Linearization  
Program up to 40 calibration points via front panel keypad, RS-485 port, or COX QuickLoad Software
- Compensates for inherent nonlinearity caused by:
  - Higher viscosity fluids such as hydraulic oils, diesel fuel, automotive oils
  - Lo Flo Series characteristic nonlinearity
- Flow totalization, local and remote
- RS-485 communications port  
Useful for changing calibration data in the field and interfacing with a central PC
- Direct indication in standard engineering units: GPM, PPM, LPM, etc.

### **Options for both Models 4010 and 4020:**

- NEMA 4 housing for wall mount applications
- Explosion-proof housings
  - Class I, Division I, Groups C and D
  - Class I, Division I, Groups E, F, and G
- RS-232 serial communications port in separate enclosure
- QuickLoad Software  
(c/w RS485 ⇌ RS232 Converter)

### **In addition to all of the key features listed, the Model 4020 Flow Computer also provides:**

- Temperature compensation  
Using an RTD temperature input and viscosity vs. temperature data fluctuations in viscosity and specific gravity caused by fluid temperature variations can be automatically corrected
- Data acquisition system interface  
Optically isolated 4-20 mA DC analog output, linearly proportion to flow rate, for connection to chart recorders or other instrumentation

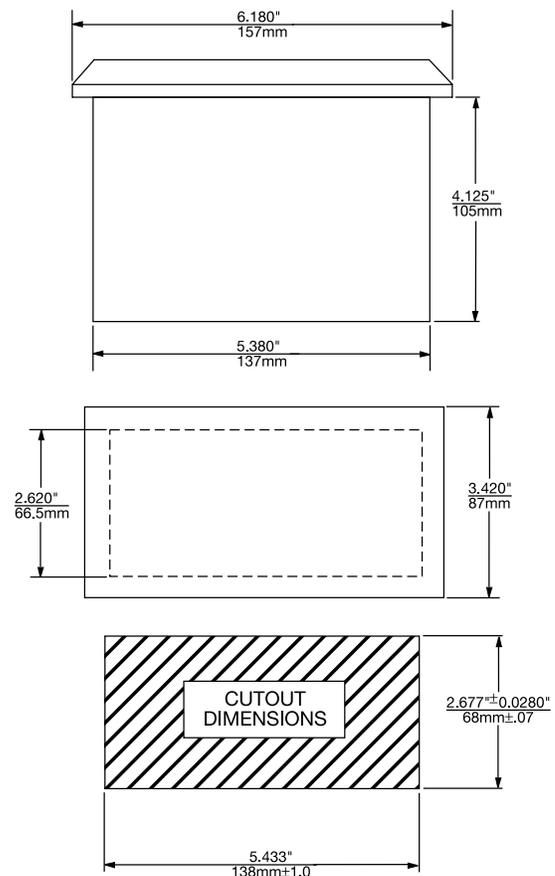


# COX 4010 and 4020 Flow Computers

Unit Specifications	
Overall Accuracy	± 0.05%
Environmental	Operating Temperature: 32°F - 131°F (0 - 55°C) Storage Temperature: -40°F - 158°F (-40° - 70°C)
Power	Nominal Line Voltage: 100, 110, 220 or 240 VAC (50/60 Hz)
Power Consumption	5 Watts max
Temperature Inputs (4020) Only	Compatible RTD type: 100Ω Platinum Lead Wire Compensation: 4 Wire Configuration 2, 3 or 4 Wire
Flow Inputs	Range: 0-24 VDC, sink only. Thresholds: High = 2.8 - 24 VDC Low = 0 - 1.3 VDC Impedance: 5.8 kΩ
Flow Rate Display	Six Digit Display 3 Character units of measure identifier (GPM, LPM, PPH, CCM, etc.)
Relay Outputs	Type: Dry Contact, Form C Contact Rating: 10A@115/230VAC/28VDC
Transistor Outputs	Type: NPN 150 mA Maximum 30 VDC
Auxiliary Power Outputs	(AC powered units only) Voltage: 24 VDC regulated and filtered Current: 0 to 100mA
Analog Output	4-20 mA, 12-27 VDC ACC: ± .1% F.S. update = 2Hz
Frequency Range	0-7.5 kHz
Communications	RS-485 Multidrop

## FLOW COMPUTER APPLICATION

- Turbine flowmeter sends digital signal to Flow Computer
- 100W RTD direct hook-up to Flow Computer (4020 Only)
- Flow Computer Linearizes, Temperature Compensate (4020 Only) and calculates corrected Flow Rate & Total
- Scaled pulse out to remote totalizer in supervisory area
- 4-20 mA out, corrected flow rate, to strip chart recorder tracks trends
- Alarm relay and transition outputs to activate bell and/or light as needed



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



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