



MODEL FT4X FLOW METER FEATURES

1. Direct Mass Measurement

The Fox FT4X measures the mass flow of gases directly Thousand Standard Cubic Feet per Day (MSCFD), Normal Cubic Meters per Hour (NM3H), Kilogram per Hour (Kg/Hr), and other mass units without the need for pressure or temperature compensation. It also provides standardized (normalized) gas flow measurement in standard volumetric units (ie SCFM) or mass units (ie LBS/M). Outputs include two 4 to 20mA and one pulse/alarm. The Fox FT4X combines the latest advances in microprocessor electronics with cutting-edge manufacturing and robust sensor design.

2. Data Logger

The Data Logger records flow rate, totals, and other events and alarms. It supports 40 daily totals, settable Contract Time, date/time stamped alarm & event logs with a 7 year history, and a power off totalizer.

3. In-the-Pipe Calibration Validation with CAL-V™

The FT4X's CAL-V™ function allows operators to validate the meter's calibration accuracy by testing the functionality of the sensor and associated signal processing circuitry - all this with the simple push of a button. Fox's innovative approach lets users validate calibration in-the-pipe -- under actual process conditions, including zero flow.

4. Outstanding Low Flow Capability, Wide Turn-Down Ratio

The Fox thermal flow meter is capable of providing precise measurement of extremely low velocity gas flows. This results in a wide measurement range and a turn down ratio of up to 1000:1; 100:1 is typical.

5. Gas-SelectX®

The Model FT4X has many common gases pre-programmed into the meter so that the user can select a gas or create a custom gas mix from the gas menu to fit the application. Three gas menus are available: Pure Gas Menu, Mixed Gas Menu, and Oil & Gas Menu.

6. Accuracy

Accuracy compliant with BLM 3175 and API 14.10.

7. DDC-Sensor™

The non-cantilevered design of the DDC-Sensor™ is standard on all Fox FT4X flow meters. Instead of using traditional analog circuitry, the DDC-Sensor is interfaced directly to the FT4X microprocessor for more speed and programmability.

8. NIST Traceable Calibration

The Fox Calibration laboratory uses NIST traceable flow standards to ensure the highest level of accuracy and the fastest turn-around time. A calibration certificate is supplied with every meter.

9. Inline, Insertion, and Retractor Sizes

Inline type flow meters are available for 1.5" to 6" pipes. Built-in flow conditioners reduce the requirement for long, straight pipe runs both upstream and down. The inline flow bodies are available in either 316 stainless or carbon steel. Insertion type flow meters probes are available in 6" to 36" sizes, can be installed in pipe diameters of 1 ½" and up, and are easy to install. Retractor sizes are 15", 18", 24", 30", and 36".

10. FC10 Flow Conditioners

Tab-style flow conditioners are available for use with FT4X insertion meters. FC10 flow conditioners are installed between two 150# flanges and reduce the need for long straight pipe runs.

Some of the features listed are optional features



MODEL FT4X FLOW METER FEATURES

11. Display and Configuration Panel

The standard display and configuration panel displays flow rate, flow total, elapsed time, process temperature and alarms. The Configuration Panel allows programming of a large variety of meter settings.

12. Digital Communications

Bus options are HART and RS485 Modbus. The FT4X uses a standard USB port to connect to a PC.

13. FT4X View™

Fox's free FT4X View™ software provides complete configuration and remote process monitoring functions. FT4X View™ lets you adjust meter configuration, evaluate transmitter alarm conditions, data log process information, and view measurements from your PC or control station. The FT4X View™ software automatically logs the date/time and results of each CAL-V™ test and can produce Calibration Validation Certificates at the conclusion of the tests.

14. Input Power

Input Power: 12 to 28VDC, 6 watts max. Full Input Power range: 10 to 30VDC.

15. Approvals

CE: Approved

EMC Directive; 2014/30/EU

Emissions and Immunity Testing: EN61326-1:2013

Pressure Equipment Directive: 97/23/EC

Weld Testing: EN ISO 15614-1 and EN ISO 9606-1, ASME B31.3

FM (FM17US0061X) and FMc (FM17CA0032X): Approved

Class I, Division 1, Groups B,C,D; Class II, Division 1, Groups E,F,G;

Class III, Division 1; T6 or T4, Ta = - 40°C to +70°C;

Class 1, Zone 1, AEx/Ex db IIB + H2 T6 or T4 Gb; Ta= -20°C to +70°C; Type 4X, IP67

ATEX (FM17ATEX0015X): Approved

II 2 G Ex db IIB + H2 T6 or T4 Gb Ta = - 20°C to +70°C; IP67

II 2 D Ex tb IIIC T85°C or T135°C Db Ta = - 20°C to +70°C; IP67

IECEx (IECEx FMG 17.0008X): Approved

Ex db IIB + H2 T6 or T4 Gb Ta = - 20°C to +70°C; IP67

Ex tb IIIC T85°C or T135°C Db Ta = - 20°C to +70°C; IP67

ATEX and IECEx Standards:

EN 60079-0: 2012 + A11:2013 EN 60079-1: 2014 EN 60079-31: 2014 EN 60529: 1991 +A1: 2000

IEC 60079-0: 2011 IEC 60079-1: 2011 IEC 60079-31: 2013 IEC 60529: 2001

Enclosure (variable 'b')	Temperature Code Marking - Divisions (All)		Temperature Code Marking - Zones (Gas)		Temperature Code Marking - Zones (Dust)	
	Main Enclosure	Remote Enclosure	Main Enclosure	Remote Enclosure	Main Enclosure	Remote Enclosure
E1	T4	N/A	T4	N/A	T135°C	N/A
E3	T6	T4	T6	T4	T85°C	T135°C

Temperature code ratings for Zones are dependent on external process temperature factors and equipment enclosure configuration. See the table above for specific temperature code ratings.

Some of the features listed are optional features