FOX THERMAL INSTRUMENTS, INC.

FOX IS ISO 9001 CERTIFIED

When Fox Thermal Instruments first introduced the Model FT2 in 2001, it quickly became the most trusted thermal mass flow meter and temperature transmitter on the market. It has been a popular and high-demand product for more than 12 years.

As demand increased in broadening markets, Fox engineers determined that upgrading the design and features would further raise quality and add to the customers' overall user experience. With this in mind, Fox has taken a hard look at its most trusted product, brought it back to the drawing board, and revolutionized the design of the flow meter in order to offer Fox customers an even more robust flow meter for harsh industrial environments. Furthermore, to expand to the Building Automation industry, Fox has broadened the communications options available on the FT2A to include BACnet MS/TP.

Take a look at the comparison summary listed below and on the next page in order to better understand the extensive design upgrades from the FT2 to the new FT2A flow meter!

FEATURE	MODEL FT2A	MODEL FT2
MEASURES MASS FLOW	Yes	Yes
MEASURES TEMPERATURE	Yes	Yes
4 TO 20mA OUTPUTS	1) Mass Flow Rate 2) Temperature **or Mass Flow Rate** **Updated 4 to 20mA output circuits**	1) Mass Flow Rate 2) Temperature
PULSE OUTPUTS	Mass Flow Rate	Mass Flow Rate
DISPLAY	2 Lines 16 Characters **Bright White** Backlight Display **(Standard)**	2 Lines 16 Characters Green Backlight Display (Optional)
POWER PRO SENSOR	Yes	Yes
COMMUNICATIONS	**Isolated** RS485 Modbus **Isolated BACnet MS/TP** Ethernet Modbus TCP Profibus-DP DeviceNet **USB Port (Standard)**	RS422/RS485 Modbus Ethernet Modbus TCP Profibus-DP DeviceNet RS232 Connection
APPROVALS*	FM/FMc * NEMA 4X Enclosure. CE Approved.	FM/FMc * NEMA 4X Enclosure. CE Approved.
CONTACT OR DISCRETE I/O	Discrete Output for Alarms Discrete Input to Reset Total	Discrete Output for Alarms Discrete Input to Reset Total
POWER INPUT	24VDC Optional 85-264VAC	24VDC Optional 85-250VAC

*See Model Datasheets for more specific information on Approvals

FEATURE	MODEL FT2A	MODEL FT2
NIST TRACEABLE CALIBRATION	Yes - Calibration Certificate with Each Flow Meter	Yes - Calibration Certificate with Each Flow Meter
FLOW ACCURACY SPECIFICATION	± 1% of Reading ±0.2% of Full Scale **16-bit signal conversion circuitry**	± 1% of Reading ±0.2% of Full Scale 12-bit signal conversion circuitry
EMI PROTECTION	Robust Industrial Design **Additional Metal Sheilding to isolate electronics from field wiring** **Advanced digital circuit design provides superior EMI immunity**	Robust Industrial Design
WIRING	Two 3/4" NPT, Female Conduits Convenient Front Panel Access to Wiring **Additional labeling** **Improved AC/DC Power markings** **Larger I/O terminal blocks for easier wiring**	Two 3/4" NPT, Female Conduits Convenient Front Panel Access to Wiring
MICROPROCESSOR DESIGN	**Streamlined and powerful single microprocessor** **256k Memory**	Dual-microprocessors 64k Memory
POWER SUPPLY	25 Watt AC Power Supply **Improved internal power supply design and integrity**	20 Watt AC Power Supply
SOFTWARE	Free FT2A View™ Software **USB Compatible** **Improved data logging features** **More user-friendly design** **Graphing capabilities**	Free FT2 View™ Software RS232 Compatible
MANUAL	Instruction Manual **Improved design and content**	Instruction Manual