

# COMPARISON OF FOX FLOW METER FEATURES

FOX MODELS FT1, FT2A, FT3, FT4A, AND FT4X

	MODEL FT1	MODEL FT2A	MODEL FT3	MODEL FT4A	MODEL FT4X
<b>INSERTION SIZES</b>	1.5" - 70"	1.5" - 70"	1.5" - 70"	1.5" - 70"	1.5" - 70"
<b>INLINE (W/FLOW CONDITIONERS) SIZES</b>	¾" - 6"	¼" - 6"	¼" - 6"	¾" - 6"	¾" - 6"
<b>REMOTE OPTION</b>		OPTIONAL	OPTIONAL		OPTIONAL
<b>OUTPUTS</b>	USB Port 4-20mA Selection of one 2nd output: • Pulse • Communication Options	USB Port 2 X 4-20mA Pulse Communication Options	USB Port 2 X 4-20mA Pulse Communication Options	USB Port 4-20mA Selection of one 2nd output: • Pulse • Communication Options	USB Port 2 X 4-20mA Pulse Communication Options
<b>COMMUNICATION OPTIONS</b>	Modbus RTU (RS485) BACnet MS/TP (RS485) HART	Modbus RTU (RS485) BACnet MS/TP (RS485) Profibus-DP DeviceNet Ethernet Modbus TCP	Modbus RTU (RS485) HART	Modbus RTU (RS485) HART	Modbus RTU (RS485) HART
<b>CONTACT OR DISCRETE I/O</b>	Discrete output for alarms*	Discrete output for alarms* Contact input to reset total	Discrete output for alarms* Contact input to reset total	Discrete output for alarms*	Discrete output for alarms* Contact input to reset total
<b>DATALOGGER</b>	None	None	Optional	None	Standard
<b>CALIBRATION VALIDATION (in-situ verification)</b>	CAL-V™	None	CAL-V™ Zero CAL-CHECK®	CAL-V™	CAL-V™
<b>POWER</b>	10-30VDC**	24VDC ±10% 85-264VAC***	24VDC ±10% 85-264VAC***	10-30VDC**	10-30VDC**
<b>DISPLAY</b>	(Optional) 2-Lines x 16-Characters Backlit	(Standard) 2-Lines x 16-Characters Backlit	(Optional) 2-Lines x 16-Characters Backlit Infrared buttons	(Standard) 2-Lines x 16-Characters Backlit	(Standard) 2-Lines x 16-Characters Backlit
<b>GAS SELECT MENU</b>	Yes - Gas-SelectX®	None	None	Yes - Gas-SelectX®	Yes - Gas-SelectX®
<b>GAS/GAS MIXES</b>	Pure Gas Menu (12 gases) Mixed Gases (choose 5)	Extensive	Extensive	Pure Gas Menu (12) Mixed Gas Menu (any of 11) O&G Gas Menu (any of 12)	Pure Gas Menu (12) Mixed Gas Menu (any of 11) O&G Gas Menu (any of 12)
<b>SENSOR</b>	DDC-Sensor™ ¾" probe	PowerPro™ Sensor ½" probe	PowerPro™ Sensor ½" probe	DDC-Sensor™ ¾" probe	DDC-Sensor™ ¾" probe
<b>FREE SOFTWARE DOWNLOADS</b>	Yes - FT1 View™	Yes - FT2A View™	Yes - FT3 View™	Yes - FT4A View™	Yes - FT4X View™

\*Contact output in place of pulse

\*\*12 - 28VDC for CE Mark approvals

\*\*\*100 - 240VAC for CE Mark approvals

		MODEL FT1	MODEL FT2A	MODEL FT3	MODEL FT4A	MODEL FT4X
<b>SPECS</b>	<b>ACCURACY</b>	±1% R ±0.2% FS (air) ±1.5% R ±0.5% FS (all other gases)	±1% R ±0.2% FS	±1% R ±0.2% FS	±1% R ±0.2% FS (air) ±1.5% R ±0.5% FS (all other gases)	±1% R ±0.2% FS (air) ±1.5% R ±0.5% FS (all other gases)
	<b>VELOCITY RANGE</b>	0 - 25,000 SFPM; 0 - 120 NMPS	0 - 60,000 SFPM; 0 - 283 NMPS	0 - 60,000 SFPM; 0 - 283 NMPS	0 - 60,000 SFPM; 0 - 283 NMPS	0 - 60,000 SFPM; 0 - 283 NMPS
	<b>SENSOR TEMPERATURE RATINGS</b>	-40° to 250°F (-40° to 121°C)	ST: -40° to 250°F (-40° to 121°C) HT: -40° to 650°F (-40° to 343°C)	ST: -40° to 250°F (-40° to 121°C) HT: -40° to 650°F (-40° to 343°C)	-40° to 250°F (-40° to 121°C)	-40° to 250°F (-40° to 121°C)
	<b>MAXIMUM PRESSURE</b>	740 psig (51 barg)	500 psig (34 barg)	500 psig (34 barg)	740 psig (51 barg)	740 psig (51 barg)
	<b>APPROVALS*</b>	CE Mark* FM/FMc Class I Div 1* ATEX/IECEX Zone 1*	CE Mark* FM/FMc Class I Div 2*	CE Mark* FM/FMc Class I Div 1* ATEX/IECEX Zone 1*	CE Mark* FM/FMc Class I Div 1* ATEX/IECEX Zone 1*	CE Mark* FM/FMc Class I Div 1* ATEX/IECEX Zone 1*

\*See Model Datasheets for more specific information on Specifications and Approvals

## Benefits of Thermal Mass Flow Technology

There are many benefits of thermal gas mass flow meters over other flow measurement technologies and Fox Thermal leads the industry for accuracy, quality, and innovative design. Benefits of Thermal Mass Flow Technology:

- Direct mass flow measurement of air and gases in standard volumetric units (e.g., SCFM or NM3/H) or mass units (e.g., LBS/M or KG/H)
- No additional pressure or temperature compensation required
- Repeatability and exceptionally broad measurement range: up to 1000:1 (100:1 typical)
- Standard linear 4-20mA output proportional to mass flow rate
- Low pressure drop
- No moving parts
- Cost-effective
- Insertion, Inline & remote\*\* styles
- Measures flow rate and temperature

## The Fox Thermal Difference:

- Microprocessor-based, field-rangeable electronics
- DDC-Sensor™ proprietary flow sensor design\*\*
- Gas-SelectX® field selectable gases / gas mixes without affecting accuracy\*\*
- CAL-V™ and Zero CAL-CHECK® Calibration Validation\*\*
- Free FT View™ Software to configure meter, print calibration validation certificates, run simulations, and more!\*\*
- Data Logger with 7-year history\*\*

\*\*features vary by model number