The FT430, FT440, and FT450 flow computers are microcontroller-based indicator/transmitters designed for pulse output flow sensors, offering precise computation and display of flow rates and totals. The FT450 is battery-powered, the FT430 can use an external DC power source or optional internal AC supply, and the FT440 is loop-powered with an optional internal AC supply for additional power needs. These models provide versatile output options, including pulse and 4-20mA analog signals for external device control, with configurations for wall, meter, and panel mounting. The FT430/440/450 units are password-protected to secure settings and prevent unauthorized changes.

FEATURES

- DC, Loop, or Battery Powered*
- Mount Remotely or Directly on Flow Sensor
- Durable Plastic Enclosure
- Non-volatile Data Storage
- Optional Data Logging
- Optional Sensus Smart Output
- Password-Protected Settings
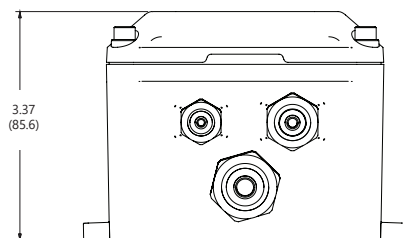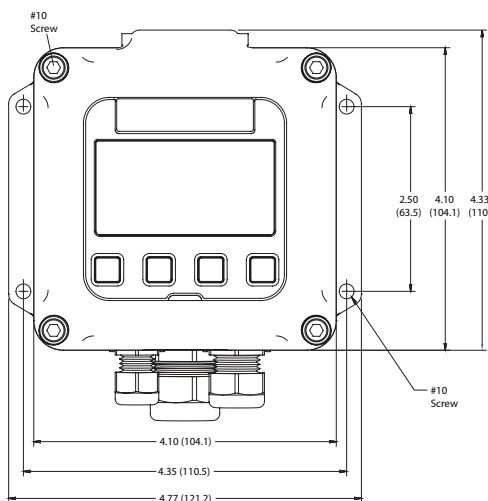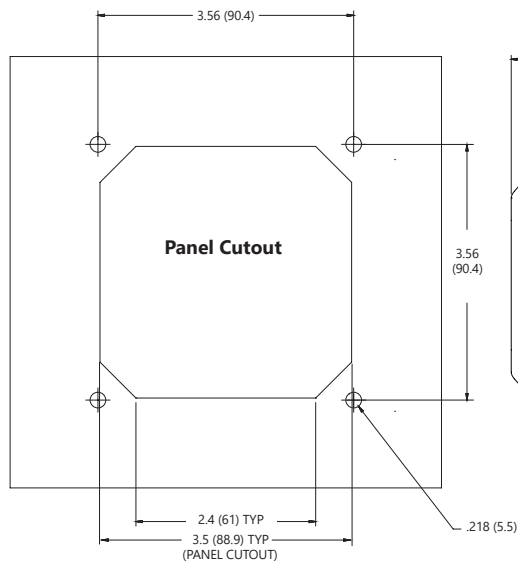- Optional Alarm Configuration*

* Model Dependent

APPLICATIONS

- Anywhere a Seametrics Flow meter is Installed
- Water Treatment
- Water Utility
- Industrial Chemical Handling
- Agriculture
- Well Monitoring

Protective Cover (Optional)

Display

Setup Keys**
Electronics Module
Lower Housing
Data Logger (Optional) Sensus
Smart Output (Optional) Strain
Relief Cable Gland Wall-
Mount Brackets

**Includes password protection for tamper prevention when needed

Panel Cutout

3.56 (90.4)

3.56 (90.4)

0.10 (2.5)
0.78 (19.8)
0.50 (12.7)

2.4 (61) TYP
3.5 (88.9) TYP (PANEL CUTOUT)
.218 (5.5)

#10 Screw

2.50 (63.5)   4.10 (104.1)   4.33 (110)

#10 Screw

4.10 (104.1)
4.35 (110.5)
4.77 (121.2)

3.37 (85.6)

CALL GEOTECH TODAY
(800) 833-7958

Geotech Environmental Equipment, Inc.
2650 East 40th Avenue Denver, Colorado 80205
(303) 320-4764   FAX (303) 322 7242
email: sales@geotechenv.com   website: www.geotechenv.com

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Technical Specifications

	FT430	FT440	FT450
Power	7-30V DC, 4mA	9-30Vdc, 4mA (4-20 mA when loop-powered)	Lithium "C", 3.6Vdc, replaceable. Life is ~5 years depending on usage.
Display **Rate** **Total**	5-digit autorange 8- digit		
Units **Rate** **Total**	Gallons/Second/Minute/Hour/Day, Liter/Second/Minute/Hour/Day, Cubic Feet/Second/Minute/Hour/Day, Cubic Meters/Second/Minute/Hour/Day, Mega Liters/Day, Million Gallons/Day, Fluid Oz/Second/Minute/Hour/Day, Barrels/Second/Minute/Hour/Day Gallon, Gallon x 1000, Liters, Mega Liter, Cubic Meter, Acre Feet, Cubic Feet, Cubic Feet x 1000, Million Gallon, Acre Inch, Fluid Ounce, Barrels		
Outputs **Pulse Output 1**	Scaled pulse output, high alarm output or low alarm output. Optoisolated on FT430 and FT440[1]		
Pulse Output 2	Pulse pass through	Scaled pulse output, high alarm output or low alarm output.[1]	Pulse pass through
Loop-Power Output	N/A	4-20mA Loop	N/A
Sensus Smart Output	Optional		
Set P Range	0.1 - 99999.9 units/pulse		
Input	5V pulse or contact closure		Micropower GMR Sensor (square wave)
Input Range	0.75[2] - 2000Hz		0.75[2] - 550Hz
K-Factor Range	.001 - 999999.999		
Flow Alarm Output Range	0.1 - 99999.9		
Operating Temp.	-5° to 55° C (23° to 131° F)		
Non- Operating Temp.	-40° to 75° C (-40° to 158° F)		
Environmental	NEMA 4X, IP67		
Regulatory			

* Specifications subject to change • Please consult our website for current data (www.seametrics.com).
[1] Scaled output pulses have a fixed width of 100ms. Maximum pulses per second is 6.5Hz
[2] For pulse frequencies <1 Hz, increase setting in SET F menu to 3 or higher.

Pulse Output Function Table

Pulse Output 1 (SCALED)	FT430	FT440	FT450
Type	Current Sinking		
Max Voltage	36 Vdc		
Max Current	100 mA		
Max Frequency	6.5 Hz		
Pulse Width	100 ms		
Isolation	300 V		Note [1]
Configurable as Alarm	YES (High or Low)		

Pulse Output 2 (SCALED)	FT430	FT440 (Note [2])	FT 450
Type	Not Available	Current Sinking	Not Available
Max Voltage		36 Vdc	
Max Current		100 mA	
Max Frequency		6.5 Hz	
Pulse Width		100 ms	
Isolation		300 V	
Configuarable as Alarm		YES (High or Low)	

Pulse Output 2 (PASS THROUGH)	FT430	FT440	FT450
Type	Current Sinking	Not Available	Current Sinking
Max Voltage	36 Vdc		36 Vdc
Max Current	10 mA		100 mA
Max Frequency	2000 Hz Note[2]		550 Hz
Pulse Width	Same as Sensor Input		Same as Sensor Input
Isolation	300 V		Note [1]
Configurable as Alarm	No		No

Note 1: 150 V effective isolation when using Seametrics micropower sensors. **Note 2:** With 2000 ohm or lower pull-up resistance.

HOW TO ORDER

Order the FT440 only if a 4-20mA output signal is a requirement and the FT450 if internal battery power is needed. Otherwise the FT430 offers the most flexibility.

Model
DC-powered indicator = **FT430**
Loop-powered indicator/transmitter = **FT440**
Battery-powered indicator = **FT450**

Mounting
Wall mount = **-W**
Panel mount = **-P** (FT430/FT440 only)
Meter mount = **See appropriate meter specification to order meter mounted units.**

Options
Tamper-evident = **-32**
Non-resettable total = **-64**
Dual Relay Output (FT430/440 only) = **-98**
Display Cover = **-126**
Internal Data Logger = **-127**
Built-in 120/240 Vac/12/24 Vdc dual power supply (FT430W/FT440W only) = **-139**
Built-in 120/240 Vac/12 Vdc single power supply
(FT430W for use with mechanical or magmeters,
FT440W for use with mechanical meters) = **-140**
Sensus Smart Output (Includes 6' Cable) = **-150**

Accessories
Display Cover = **102021**
Dual power supply, plug-in, 115 Vac, 12/24 Vdc = **PC42**
Power converter, plug-in, 115 Vac, 24 Vdc = **PC3**
FT430/440 Dual Relay Option w/wire adapter = **100557**

Adapter Kits				
	Part #	Electronics Module	Lower Wall Housing	Lower Meter Housing
Convert wall to meter mount (MK15)	103594	White	White	
Convert meter to wall mount (MK25)	103396		White	
Adapter kit to mount white electronics to blue housing	103391		Blue	
Adapter kit to mount white electronics to blue housing/Tamper evident	103392		Blue	

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