**Seametrics**

ISO 9001:2008 CERTIFIED COMPANY

## FEATURES

- Simple Setup
- Battery (FT415) or Loop Powered (FT420)
- Remote or Flow Sensor Mounted Indicator
- Rugged Metallic Housing
- Non-volatile Memory

## APPLICATIONS

- Water Treatment
- Water Utility
- Industrial Chemical Handling

**FT420**
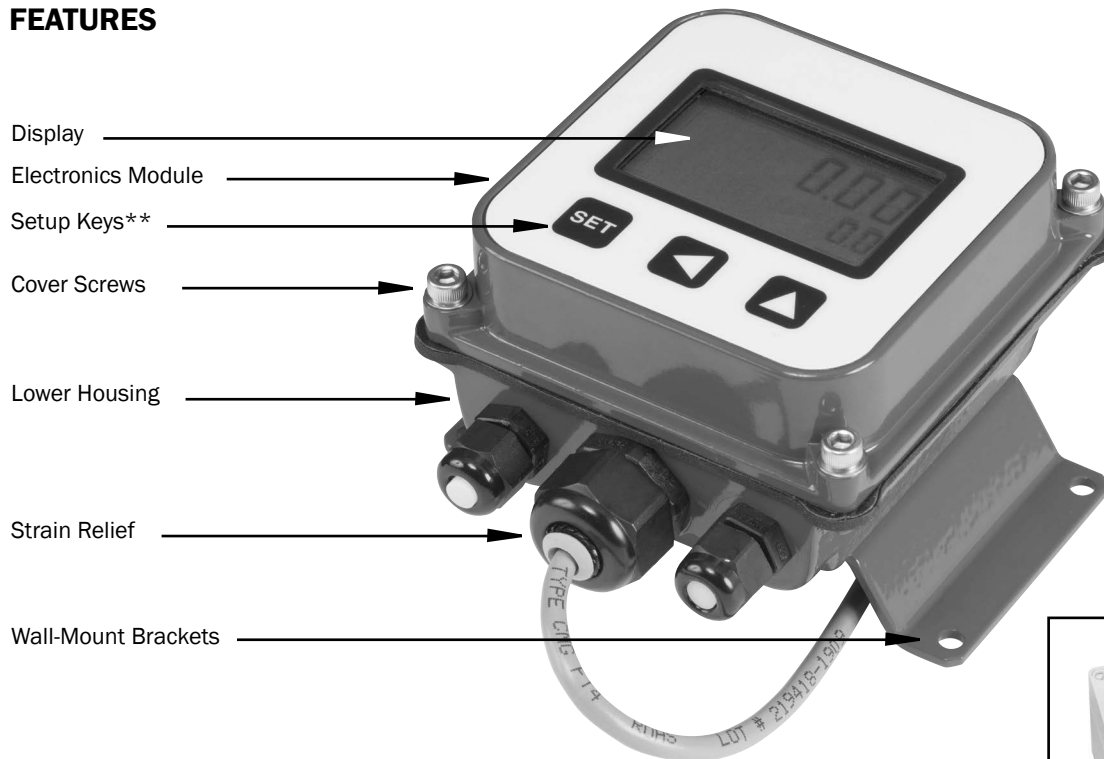
**FT415**

## GENERAL INFORMATION

The FT400-Series flow computers are microcontroller-based indicator/transmitters that display flow rate and total and provide output signals. The FT415 is battery-powered and provides a scalable pulse output. The FT420 is powered by external DC voltage and has both pulse and 4-20 mA analog outputs. When the FT420 is being used in the 4-20 mA mode, it is a "two-wire" or "loop-powered" device, meaning that the 4-20 mA output signal doubles as its power supply.

The addition of a dual-relay output board (FT420 only) allows for certain applications requiring contact output isolation (e.g., certain metering pumps and water treatment controls). Dual solid state relays provide exactly the same pulse output as the standard unit, and each can signal one external device. A non-resettable total is also available. The FT420 can be ordered in a plastic enclosure with a 115 Vac power supply for use with mechanical meters, or with a built-in 115 Vac/12-24 Vdc dual power supply for magmeters.

Both the FT415 and the FT420 can be factory-mounted on the meter (-M) or remotely wall mounted with the brackets provided (-W). The FT420 is also available as a panel mount (-P) with an open back for easy installation in the user's own electrical enclosure. Most FT400's can be converted from wall-to-meter or meter-to-wall mount configurations after installation if needed.

Housings for the -W and -M models are rugged cast aluminum, potted and gasketed for maximum environmental protection. A membrane keypad allows settings to be changed without removing the cover. (Password protection, a standard feature on the FT420, can be used to prevent settings from being changed.)

**Seametrics**

## FEATURES



Display

Electronics Module

Setup Keys**

Cover Screws

Lower Housing

Strain Relief

Wall-Mount Brackets

**The FT420 includes password protection for tamper prevention when needed



FT420 with -27 or -65 Option

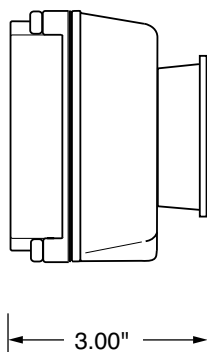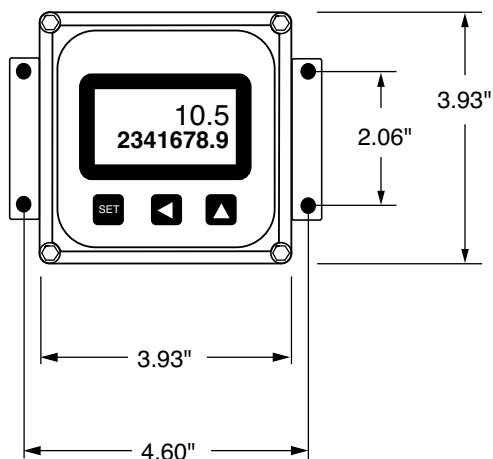| SPECIFICATIONS* | | FT415 | FT420 |
|---|---|---|---|
| Power | | Lithium "C", 3.6 Vdc, replaceable.  Estimated life is 3-5 years depending on usage. | 12-30 Vdc, 4mA (4-20 mA when loop-powered) |
| Display | Rate | 6-digit autorange, 1/2" character height | 6-digit autorange, 1/2" character height |
| | Total | 8-digit, 5/16" character height | 8-digit, 5/16" character height |
| Outputs | Current Sinking Pulse | Scaled Pulse output (0.1 sec duration 6.1 Hz max) (or High Alarm output or Low Alarm output) | |
| | | Sensor pass-through Pulse output (unscaled) | |
| | Analog | None | 4-20 mA loop; 24-30 Vdc |
| Pulse Output Range | | 0.1 - 9999999.9 units/pulse | 0.1 - 9999999.9 units/pulse |
| Input | | Micropower GMR Sensor (square wave) | 5V pulse or contact closure |
| Input Range | | 1.0 - 150 pulses/second | 1.0 - 1,500 pulses/second |
| K-Factor Range | | .001 - 99999.999 | .001 - 99999.999 |
| Flow Alarm Output Range | | .01 - 999999.99 | .01 - 999999.99 |
| Operating Temperature | | -30˚ to 65˚ C (-22˚ to 148˚ F) | -30˚ to 65˚ C (-22˚ to 148˚ F) |
| Environmental | | NEMA 4X, IP66 | NEMA 4X, IP66 |

*Specifications subject to change • Please consult our website for current data (www.seametrics.com).
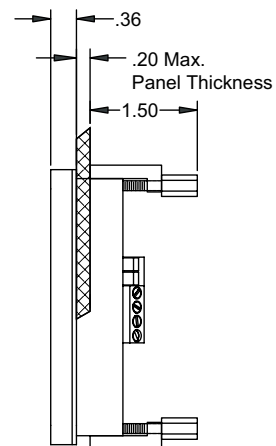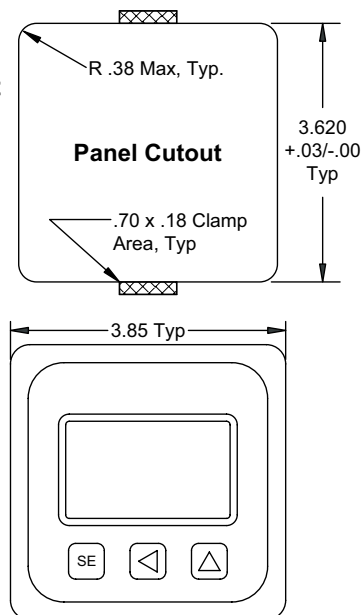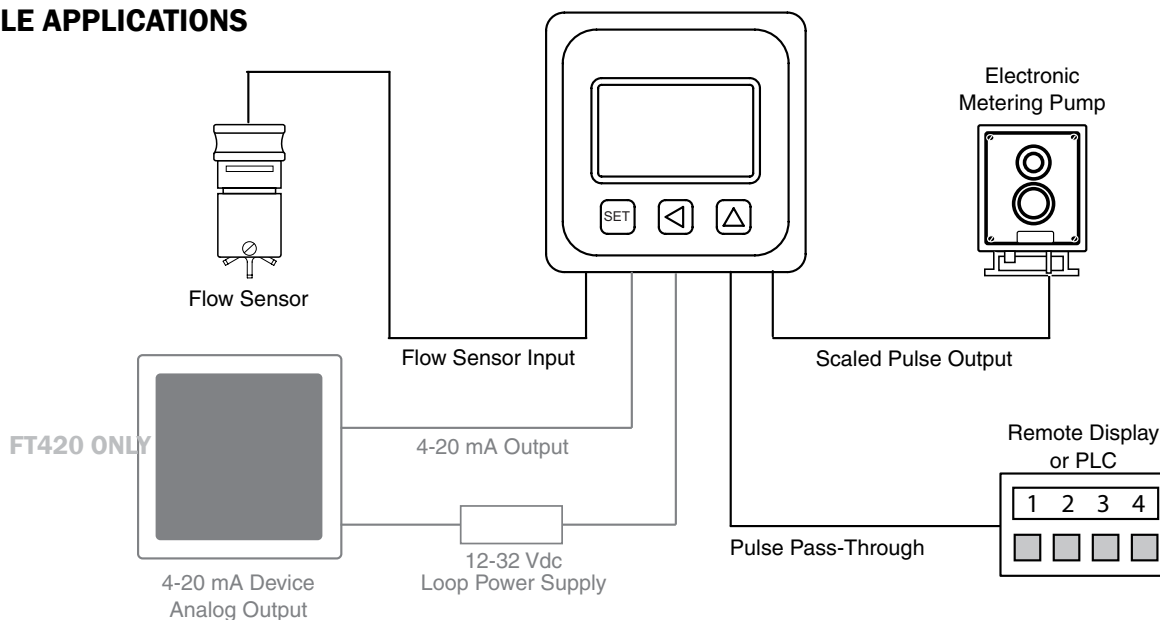
## DIMENSIONS

**FT415/FT420
Sensor Mount**

2.97"
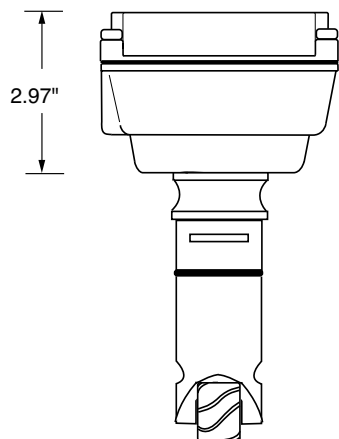
**FT415/FT420
with Wall Mount Brackets**

10.5
**2341678.9**

SET ◀ ▲

3.93"

2.06"

3.93"

4.60"

3.00"

**FT420
Panel
Mount**

R .38 Max. Typ.

**Panel Cutout**

3.620
+.03/-.00
Typ.

.70 x .18 Clamp
Area, Typ.

3.85 Typ.

SET ◁ △

.36

.20 Max
Panel Thickness

1.50

## POSSIBLE APPLICATIONS

Electronic
Metering Pump

Flow Sensor

Flow Sensor Input

Scaled Pulse Output

**FT420 ONLY**

4-20 mA Output

4-20 mA Device
Analog Output

12-32 Vdc
Loop Power Supply

Pulse Pass-Through

Remote Display
or PLC

| 1 | 2 | 3 | 4 |

## HOW TO ORDER

### MODEL

Battery-powered indicator = **FT415**

Loop-powered indicator/transmitter = **FT420**

### MOUNTING

Premounted on meter = **M**

Wall mount = **W**

Panel mount = **P**

### OPTIONS

Built-in 115 Vac/12-24 Vdc dual power supply (FT420W only, use with magmeters) = **-27**

Tamper-evident = **-32**

Non-resettable total = **-64**

Built-in 115 Vac power supply (FT420W only, use with mechanical meters) = **-65**

Dual relay output (FT420 only) = **-98**

### ACCESSORIES

Data logger (wall mount) = **DL76W**

Power converter, plug-in, 115 Vac, 24 Vdc = **PC3**

Dual power supply, plug-in, 115 Vac, 12/24 Vdc = **PC42**

Protective cover, hinged = **101949**

Mounting kit, wall-to-meter conversion = **102632**

Mounting kit, meter-to-wall conversion = **102633**

LMI pump power cable = **100013**

LMI pulse out cable = **100039**

## CONTACT YOUR SUPPLIER