

# FLOW

## FC100 & FC101

### MCCROMETER HIGHLY INTELLIGENT DIGITAL FLOWCOM REGISTER



#### Specifications

Part Number	Specify FC100 or FC101
Accuracy	0.25%
Operating Voltage	12 to 40 VDC
Operating Temperature	-4° to 158°F/-20° to 70°C

#### Features

The McCrometer FlowCom Register simultaneously displays flow rate and volumetric totalized flow data for McCrometer's Mc Propeller flow meters. The FC100 and the FC101 feature an advanced microprocessor-based design and is used to replace electro-mechanical counters.

Both are ideal for local direct reading and remote monitoring applications in a wide range of water and water treatment applications. With their remote-mount option, they can be mounted away from confined spaces where combustible and hazardous gases may be present.

The five-digit top line of the display indicates flow rate and the eight digit bottom line of the display provides volumetric flow data. Up to 22 different output measurement units, including gallons, cubic feet and liters, are user selectable.

- Large easy-to-read, two-line digital screen
- Local meter-mount display and remote system compatible
- Remote-mount option for confined space applications
- Menu-driven programming with lock-out security access
- Four output options including 4-20mA
- 22 different units of measurement that are user-selectable
- Non-volatile memory to protect data and 6-10 year battery life
- NEMA 4X rated enclosure with non-intrusive register programming
- Factory sealed enclosure protects electronics

*Requires a Delta DRP024V060W3AA Power Supply*

**FC100** - Retrofits to any Mc Series flow meter

**FC101** - Retrofits to any WS Series flow meter

## E7000-000

### TWO WIRE 4-20 mA TRANSMITTER FOR MCCROMETER PROPELLER METER

#### Specifications

Part Number	E7000-000
Accuracy	0.1%
Operating Voltage	16 TO 40 VDC
Operating Temperature	+25° to 130°F/-4° to 54°C

#### Features

420 ma transmitter for McCrometer propeller meters without 4-20 mA outputs.

- Compatible with all McCrometer propeller meters with mechanical registers
- Compatible with meter sizes up to 24"
- 4-20mA output is linear with flow rate
- Installation can be accomplished without meter removal from pipe
- Factory sealed enclosure protects electronics

*Requires a Delta DRP024V060W3AA Power Supply*

# FLOW

## IP101 & IP201

### SEAMETRICS ADJUSTABLE DEPTH PADDLEWHEEL FLOW SENSOR

#### Specifications

Part Number	Specify IP101 or IP201
IP101 Pipe Size	2 to 10 INCHES/ 50 to 250 MM
IP201 Pipe Size	10 to 48 INCHES/ 250 to 1200 MM
Accuracy	+1.0 to 1.2% FS
Operating Voltage	5 to 24 VDC
Range	0.3 to 30 FPS/0.1 to 9 M/S

#### Features

Ruby bearings and a non-drag pick-off give the adjustable insertion SeaMetrics paddlewheel flow sensors the widest flow range of any paddlewheel flow sensor.

A sensor detects the passage of miniature magnets in the six rotor blades. The resulting square-wave signal can be sent for hundreds of feet without a transmitter over unshielded cable. This signal can be connected directly to many PLCs and to other controls without any additional electronics.

The paddlewheel flow sensors can be installed using standard 1-1/2" or 2" NPT installation fittings.

A modular system of electronics can be installed directly on the SeaMetrics paddlewheel flow sensor in splash proof cast housing.

- Brass or 316 SS body
- One easily-replaced moving part
- Standard NPT threaded pipe fittings

**IP101**- covers pipe sizes from 2" to 10".  
For larger than 10", use the SeaMetrics IP201.

**IP201**- covers pipe sizes from 10" to 48".  
For smaller than 10", use the SeaMetrics IP101.

*Requires a Delta DRP024V060W3AA Power Supply*

*Requires a SeaMetrics FT420 Readout which provides digital rate and total display, as well as a 4-20 mA analog output*



## FT420

### SEAMETRICS MICROCONTROLLER-BASED INDICATOR/TRANSMITTER

#### Specifications

Part Number	FT420
Operating Voltage	12 to 30 VDC - 4 mA / 4 to 20 mA when loop-powered
Display Rate	6-digit autorange/1/2 inch character height
Display Total	8-digit/5/16 inch character height
Output: Scaled Pulse	0.1 sec duration/6.1 Hz max or high or alarm output
Output: Pass-through	unscaled
Output: Analog	24 to 30 VDC/4 to 20 mA loop
Pulse Output Range	0.1 to 9999999.9 units per pulse
Input	5V pulse or contact closure
Input Range	1.0 to 1500 pulses per second
K-Factor Range	00.1 to 99999.999
Flow Alarm Range	0.1 to 999999.99
Operating Temperature	-22° to 148°F/-30° to 65°C
Enclosure Rating	NEMA 4X/IP66
EMC	CE EN 61000

#### Features

The FT420 flow computer is a microcontroller-based indicator/transmitter that display flow rate and total and provides output signals. It is powered by external DC voltage and has both pulse and 4-20 mA analog outputs. This transmitter 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 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.

It 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.

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, can be used to prevent settings from being changed.)

- Simple setup
- Remote or flow sensor mounted indicator
- Non-volatile memory

#### Applications

- Water treatment
- Water utility
- Industrial chemical handling

