



### General Information

Sapphire bearings and a non-drag pickoff give these adjustable insertion turbine flow sensors a wide flow range and long life. A Hall-effect device detects the passage of miniature magnets in the eight 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 PLC's and other controls without any additional electronics.

Installation fittings are standard 1-1/2" NPT. A depth adjustment system allows two basic sizes to cover pipe sizes from 2" to 48". Fittings such as saddles and weldolets may be purchased locally, and are also available from SeaMetrics.

A modular system of electronics can be installed directly on the flow sensor, in a splashproof cast housing. The FT410 provides digital rate and total display, as well as programmable pulse and optional 4-20 mA analog outputs. The AO45 is a blind analog transmitter. Programmable pulse for pump pacing comes from the PD10. Each of these controls is also available in a wall mount housing.

### Specifications

#### Materials

Sensor body	Brass, 316 SS
Rotor	Polypro PVDF optional
Shaft	Nickel-bound tungsten carbide, zirconia ceramic optional
Bearings	Ruby

#### Range

0.2 – 30 fps (0.06-9 M/s)

#### Accuracy

± 1% FS

#### Maximum Pressure

200 psi (13 bar)

#### Temperature

Standard	185° F (85°C)
High-Temp	250° F (121°C)

#### Pipe Size

TX101	2"-10" (50 - 250mm)
TX201	10"- 48" (250 - 1200mm)

#### Sensor/Signal

Hall Effect (NPN) Current sinking pulse, 20 mA max.

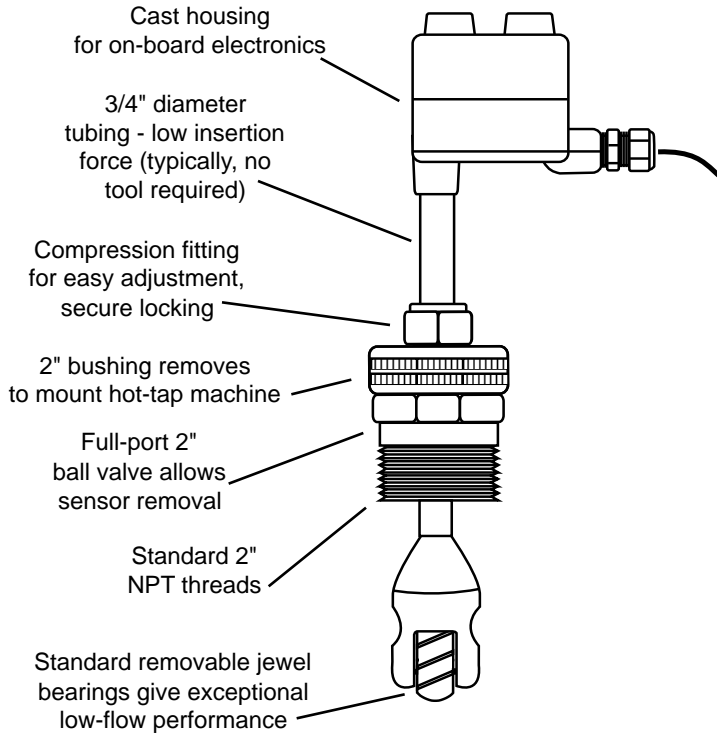
#### Cable

#22 AWG 3-con, 18' (6m)

#### Maximum Cable Run

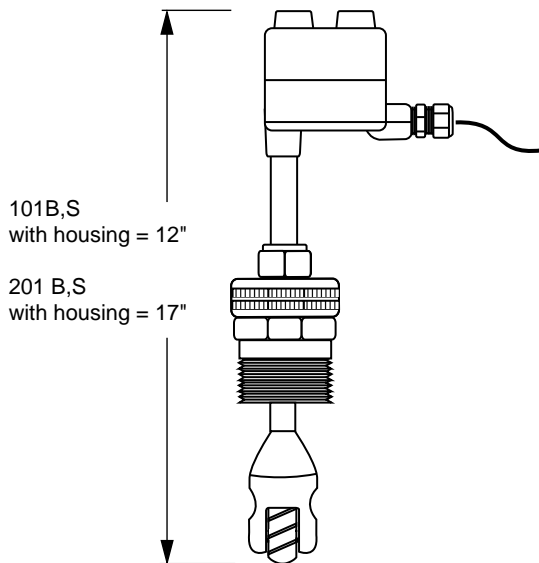
2,000' (650m)

## Features



	Min. GPM	Max. GPM
2"	2	300
3"	5	700
4"	8	1,100
6"	18	2,500
8"	30	4,500
10"	50	7,000
12"	70	10,000
16"	110	16,000
24"	250	35,000

## Dimensions



## How To Order

Material codes: B = Brass,  
S = (316 SS)

Option codes:

TX101 - \_\_\_\_\_ - \_\_\_\_\_  
TX201 - \_\_\_\_\_ - \_\_\_\_\_

### OPTIONS:

- 04 Passive Pickup
- 03 Bidirectional flow (Hall-Effect only)
- 06 LMI pump connector
- 07 SeaMetrics control connector
- 05 High temp: PVDF rotor/ceramic shaft
- 10 High Pressure
- 40 Submersable

# SeaMetrics

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