

TX80 Series Flow Sensor Specifications



General Information

The TX80 Series are turbine-type insertion meters designed for use in pipe sizes 1" to 8". High-quality jewel bearings and nickel-bound tungsten carbide shaft are used for maximum life and extreme low friction. Bodies are machined from solid rod for maximum precision. Lowflow performance is superior. The rotation of the rotor is detected by a non-drag Hall-effect sensor. Output is a pulse-type square wave, which can be sent long distances (up to 2,000 feet) without a transmitter. This signal can be connected directly to controls, as well as PLC's, counters, and computer cards. Battery operation using the FT415 battery-operated Flow Computer is also available as an option.

Muis Controls TX80 meters are ideal for chemical proportioning applications. If no display is required, a simple divider such as the PD10 provides adjustable pump pacing. For rate and total display, as well as pump pacing, the FT420 flow indicator can be mounted directly on the TX80 Series, or remotely on a wall or panel.

The TX80 Series require special fittings, since they are not depth-adjustable, installation in the fitting ensures correct depth placement in the pipe. Fittings are available in PVC, brass, and stainless steel. Sensors are available in brass, 316 stainless steel, and polypropylene. In plastic pipe 3"-8", use an IP82 sensor, which is 1.00" longer than the IP81 to accommodate the larger fittings.

Specifications

Sensor

Hall Effect Sensor 12 VDC current

sinking pulse

Materials

Sensor Body Polypro, Brass,

or 316 SS

Rotor Polypro, Kynar opt. Shaft Nickel-bound

tungsten carbide,

ceramic opt.

Bearings Ruby

Maximum pressure

Polypro 175 psi at 75° (12 bar) Brass 200 psi (14 bar)

250 psi (17 bar)

316 SS Maximum Temperature

Polypro 130° F (55° C) at 0 psi

Brass, SS 200° F (93° C)

Power 6-24VDC, 8 mA

Signal current sinking pulse

(NPN), 20 mA max

Flow Range (GPM)

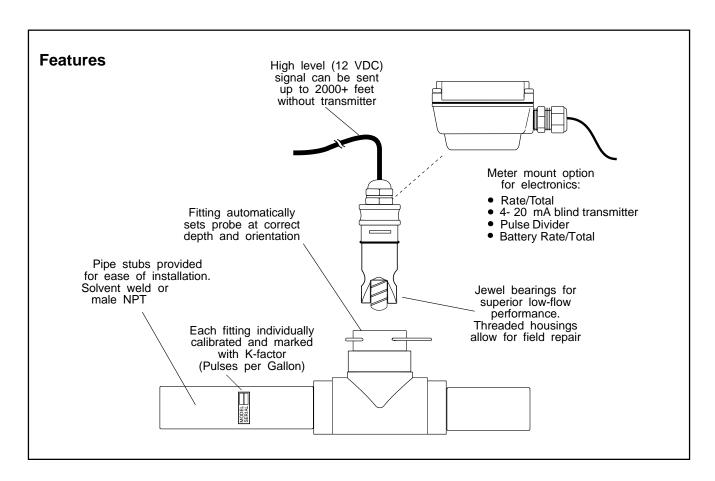
 1"
 1-1/2"
 2"
 3"
 4"
 6"
 8"

 Min.
 0.8
 1.9
 3.1
 6.9
 12
 27
 47

 Max.
 80
 190
 314
 691
 1200
 2700
 4700

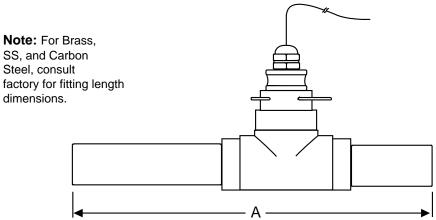
Cable #22 AWG 3-con, 18'

Fittings Compatibility Chart		
Material	TX81	TX82
Bronze	1"-4" Tee	3"-8" Braze fitting
PVC	1/2"-2" Tee	3"-8" Saddle
Polypro	N/A	3"-8" Tee
Stainless steel	1/2"-2" Tee	3"-8" Weld fitting
Carbon steel	1/2"-2" Tee	3"-8" Weld fitting

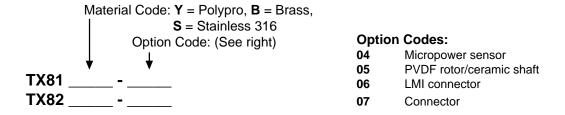


Fitting Length		
Dim. A		
18-1/2"		
20"		
20"		
*		
*		
*		

* Requires saddle



How To Order



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