



TURBINE INSERTION FLOW METER

630-0710-XXX

TURBINE INSERTION FLOW METER

The TX100/200-Series Flow Meter is an adjustable depth insertion turbine that comes in brass or 316 stainless steel and fits 3" to 48" pipe. 1-1/2" NPT installation fittings are standard. Accessories such as saddles and weldolets may be purchased as an option. Ruby bearings and a non-drag pickoff give these adjustable insertion turbine flow sensors a wide flow range and long life. A sensor detects the passage of miniature magnets in the rotor blades. The resulting square-wave signal can be sent for hundreds of feet without a transmitter, over unshielded cable.

When using the Flow Meter (without display) with Automata's MINI Field Station, a FLOW-COMP (629-0300-XXX) is required for signal conversion from a frequency signal to an analog output for flow rate as well as a pulse output for total flow. If the Flow Meter Display is needed and connected to a MINI Field Station, then a Flow Display Harness (341-6100-000) is required. The FT415 Display (battery powered) or FT420 Display (loop powered) provides digital rate and total display, as well as programmable pulse; the FT420 also provides a 4-20 mA analog output.



Specifications	
Pipe Size	TX101 (630-0710-000): 3" – 10" TX201 (630-0710-002): 10" – 48"
Power	5-24 Vdc, 1.5 mA
Flow Range	0.2 – 30 feet/sec (0.006 - 9 M/sec)
Insertion Force	0.44 x pressure in pipe
Fitting Size	1-1/2" Male NPT
Max. Temperature	200° F (93° C)
Max. Pressure	200 psi (14 bar)
Accuracy	+/- 1.5% Full Scale
Materials	Sensor Body: Brass, 316 SS Rotor: Polypro, PVDF (optional) Bearings: Ruby jewels Shaft: Nickel-bound tungsten carbide, zirconia ceramic optional
Cable	#22 AWG 3-con, 18'
Max Cable Run	2000'
Dimensions	TX101: 11.4" TX201: 16.4"

Email: sales@automata-inc.com • <http://www.automata-inc.com>
 Fax: (530) 478-5881 • Phone: (530) 478-5882 • (800) 994-0380
 138 New Mohawk Rd., Ste. 151 • Nevada City, California 95959

Flow Range (GPM)		
Pipe Size	Min. Flow	Max Flow
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

