

XP High Pressure Turbine Flow Sensor



FEATURES

- Outstanding accuracy
- Fast response to change of flow.
- Suitable for pressurized Oil applications.
- Industry Standard End Connections
- Cost effective.
- Available in **20 mm, 25 mm & 50 mm.**

- Use of filter before Flowmeter is necessary
- Straight Run conditions given in manual must be maintain while installation

GENERAL DESCRIPTION

XP is a Full Bore SS body Turbine Flow Sensor suitable for **High Pressure** water and oil application. Turbine flow sensor is a combination of freely rotating turbine assembly; SS housing and solid state pick-up tungsten carbide-Ceramic bearing makes it practically frictionless producing large linear range. Detachable square wave generated pick-up assembly is much advance solid state device to give output at noisy industrial environment. Variety of matching controllers and indicator are available suitable to match different electronic requirements.

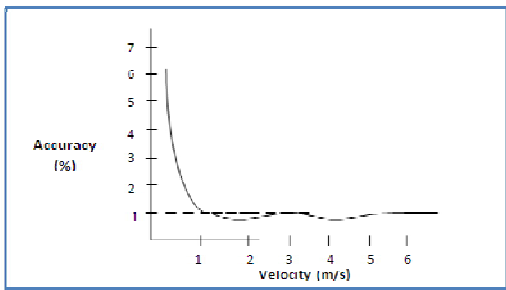
TECHNICALS

Technical Data	Electrical Connection ratings	Material
Velocity: 0.2 to 10 m/s	Power supply: 12-24 V DC +/-15%	Housing: S.S. 316
Linearity: +/- 1 %	Consumption: < 30 mA	Rotor: G.F
Repeatability: +/- 0.5 %	Output Signal: NPN & PNP	Bearing Bush: Ceramic
Temperature range: 0 to 70 °C	Output: 12-24 V Square Wave	Shaft: TC
Pressure range: upto 400 bar.	Cable Type: 2 Core PTFE Shielded	
End Connection: BSP/TC/FLANGE		
Filtration: 100 microns		

APPLICATIONS

<i>hydraulics</i>	<i>automobile</i>	<i>diesel</i>
<i>wind energy</i>	<i>food and beverages</i>	
<i>heavy engineering</i>	<i>power</i>	<i>off shore</i>

ACCURACY DIAGRAM and LINE SIZE SELECTION CHART

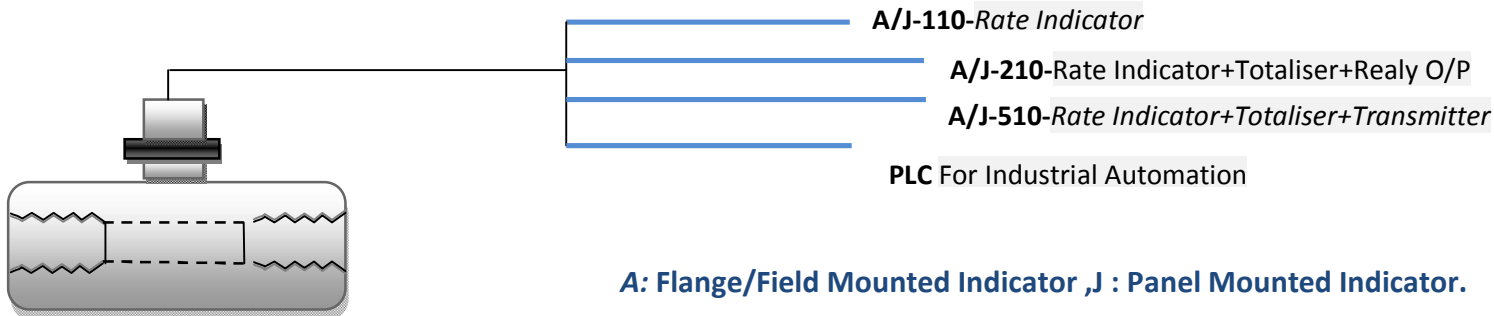


MODEL	FLOW RANGE
XP-20	3 -100 LPM
XP-25	5-100 LPM
XP-50	58.5-585 LPM

Overall accuracy of +/- 2 % the reading for 10-100 % of Flow Range & +/- 5% for 0-10 % of flow Range.

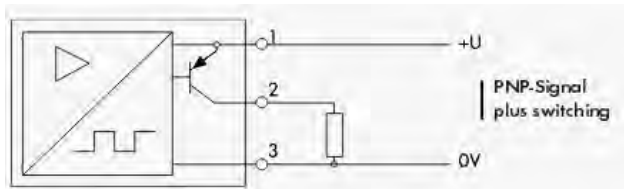
ELECTRICAL WIRING

Variety of Electronic Readers cum controllers are available.

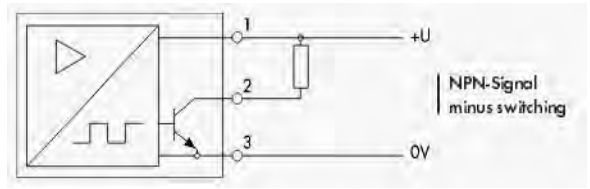


For Battery Operated Active Sensor please contact the Factory.

Connection : PNP Switching



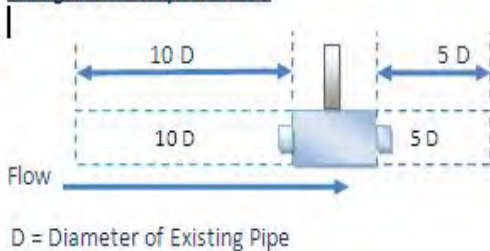
Connection : NPN Switching



MECHANICAL

Straight inlet and outlet distances that must be maintained when installing sensor in pipe lines in order to achieve turbulent flow conditions. The most important layout that could lead to turbulence in the flow is shown below, together with mentioned minimum and inlet and outlet distances. These insure turbulent, problem-free measurement conditions at the measurement point. For more Installation guidelines please contact.

Straight Run Requirement:



NOTE:

1. In Vertical Pipe only Upstream flow is recommended.
2. Flow Meter should be installed before valve.
3. for desired results, 100 micron filter is must before the sensor