Product Technical Datasheet
A-6600 Series Turbine Meter

ACCESS Instrumentation

A-6600 Series Liquid Inline Turbine Meters

Features

- Meter Sizes 4” (100mm) to 16” (406mm)
- Continuous, On-Line Flow Measurement
- High Levels of Accuracy and Repeatability
- 10:1 Flow Range
- Low Pressure Drop
- Wide Range of Applications
- Individually Calibrated
- Third Party Calibration Can Be Offered
- Ease of Repair; On-Site or Work Shop
- Twin Pick-up for pulse security

DESCRIPTION

When customers need a cost effective, accurate and reliable way of **custody transfer** flow metering, Access Instrumentation Limited has the solution. Access Instrumentation Limited inline turbine flowmeters for custody transfer of liquids are widely used in the oil and petrochemical sectors and are designed to handle industrial applications at a competitive price.

The turbine meter consists of a flanged body that contains a rotating impeller which rotates at a speed directly proportional to the flow rate. The rotor, manufactured from magnetic stainless steel, generates a pulsed output as the blades rotate through the flux field of a magnet that is contained in the pickup assembly. This feature allows the instrument to function without the need of a power supply which enables it be installed in a remote location. Twin Pick-ups enable high integrity metering when utilised with a suitable flow computer.

Turbine Meters are easy to install due to their compact design, which results in minimal downtime for installation and maintenance. Meters are available with standard variety of ANSI or DIN flanges.

SPECIFICATION

Flowmeter:

Linearity: ±0.15% of reading over a specified flow range and operating viscosity.

Repeatability: ±0.02%

Pressure drop: Typically 4psi (275mBar) at normal maximum flow rate in water

Maximum pressure: To flange specification.

Materials of construction:
Body: 316 Stainless Steel
Rotor: Stainless Steel
Flanges: forged carbon steel or stainless steel
Sleeve bearings: tungsten carbide shaft, Stellite sleeve
Ball bearings: stainless steel ANSI 440C

General:

Hazardous area certification: ATEX Ex ia IIC T6 or Ex d IIC T6 (IP65)
Installation: Install as per API guide lines.

Outputs:

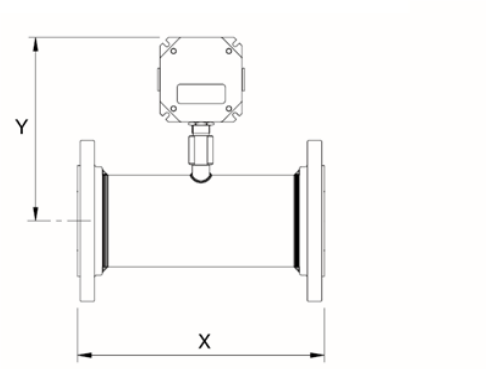
Standard: mV pulse typically 100mV peak-to-peak at 0.91m/s (3ft/s)
Pre-amplifiers: ISPA8700 4-20mA current modulated pulse

Electrical:

Power supply: Not required for mV pulse, 24Vdc loop for ISPA8700
Termination: 2 pin Cannon as standard, Terminal block housed in conduit box, Screw terminals on pre-amplifiers,
Junction box cable entry: 0.5” NPT or M25.

DIMENSIONS

Flanged meters



Nominal Bore Size		X end to end		Y Centreline to top of conduit box	
Inches	**mm**	**Inches**	**mm**	**Inches**	**mm**
4	**100**	**14**	**356**	**10**	**254**
6	**150**	**14.5**	**368**	**11**	**279**
8	**200**	**18**	**457**	**12.25**	**311**
10	**250**	**18**	**457**	**13.25**	**336**
12	**300**	**18**	**457**	**14.25**	**362**
16	**406**	**24**	**610**	**16.5**	**419**

Meter Sizes And Flow Range

SIZE CODE & NOMINAL BORE		FLOW RANGE (LIQUID)	
SIZE CODE	NOMINAL BORE	M^3/h	USGPM
L	4” (100mm)	27 to 270	120 to 1200
M	6” (150mm)	55 to 550	240 to 2400
N	8” (200mm)	110 to 1100	480 to 4800
P	10” (250mm)	190 to 1900	840 to 8400
R	12” (300mm)	270 to 2700	1200 to 12000
S	16” (406mm)	400 to 4000	1800 to 18000

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