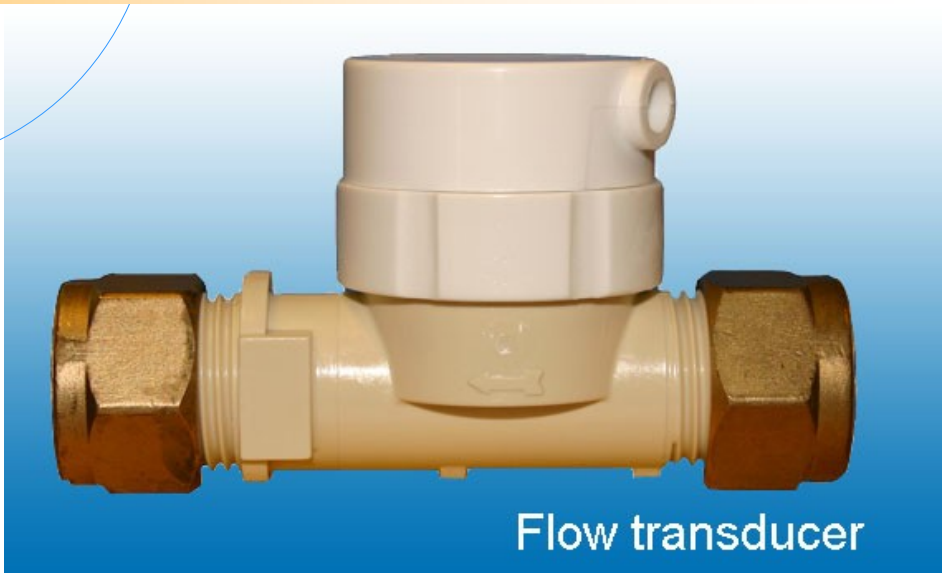
TITAN ENTERPRISES LTD.

FLOW TRANSDUCER DATA SHEET

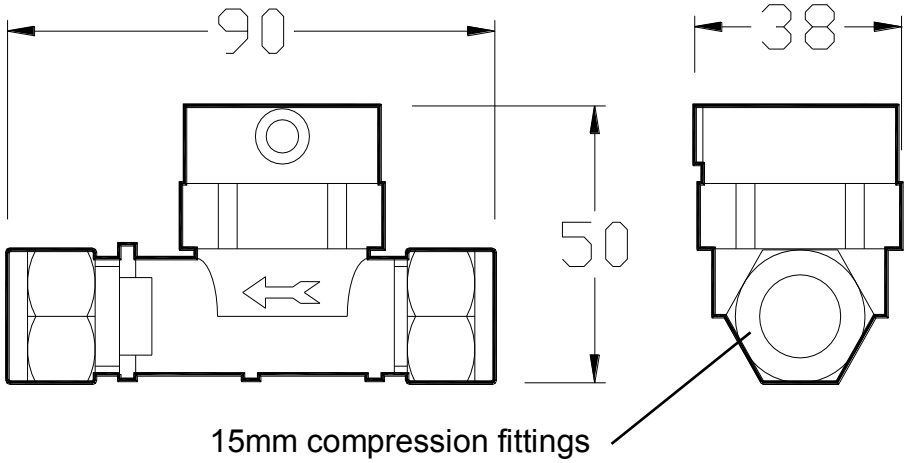


Economical
Acetal body
1½% FSD
Sapphire bearings
Optical sensing
2 Flow ranges
Pulse output
15 Bar rating
Nitrile seal
15mm fittings
0.25% Repeatability
Various power options
70°C Max
Flow switch option
IP 54

Ideal for

Drink dispensing
Showers
Cooling equipment
Dishwashers
Low viscosity fluids
OEM applications

This multi-range radial flow turbine meter uses a low inertia turbine supported on robust sapphire bearings. It has 15mm compression brass fittings and is available in two flow ranges, 0.25 to 6.5 and 1.5 to 30 litres per minute. There are four standard configurations The basic sensor is fitted with an LED and detector, alternatively it may be fitted with a flying lead for 5V or 7-24V use or even fitted with a integral adjustable flow switch printed circuit board. The pulse output may be readily interfaced with almost any electronic recording device as it is an open collector transistor with an internal pull up resistor on the basic two models and without the pull resistor on the 7-24V model. Custom leads or connectors are also available for large quantity orders for original equipment manufacturers.



TITAN ENTERPRISES LTD.

Coldharbour Business Park,
Sherborne,
Dorset,
DT9 4JW
Phone (44) 01935 812790.
Fax (44) 01935 812890
Web www.flowmeters.co.uk
Sales@flowmeters.co.uk

Order Codes

Grey

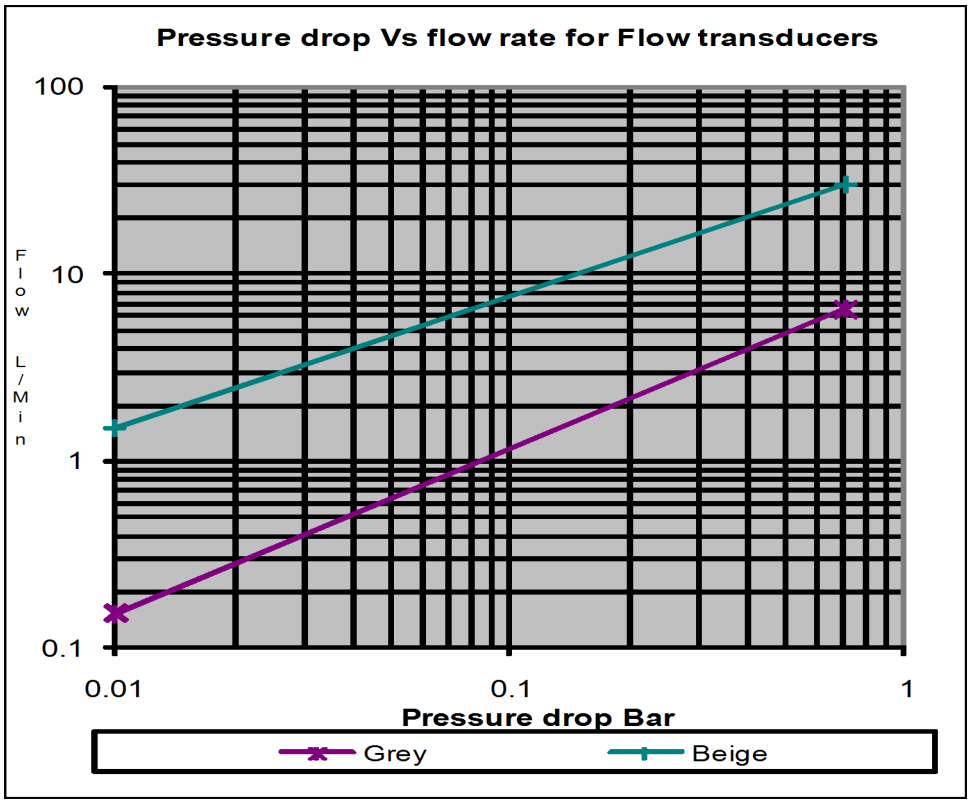
Basic flowmeter	163-000
5 Volt with lead	163-009
7 - 24 Volt with lead	163-010
Flow switch *	163-011

Beige

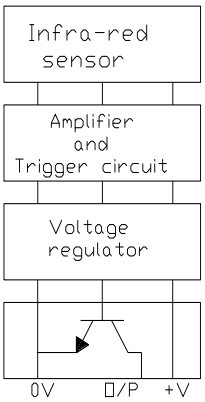
Basic flowmeter	161-000
5 Volt with lead	161-009
7 - 24 Volt with lead	161-010
Flow switch *	163-011

* This is a separate order code and must be ordered as an additional item to the basic flowmeter. The maximum operating temperature of the flow switch version is 55°C.

Model	Flow range L/Min	Linearity % FSD	Typical Freq. Hz.	Approx 'K' Factor
Grey	0·15 - 6·5	1.5	500	4600
Beige	1.50 - 30	1.5	600	1200



This rotation is detected when a turbine blade crosses a powerful infra-red light beam. The resulting output is a NPN pulse that is readily interfaced with most electronic display or recording devices. The combination of materials and technology ensures a long life product with reliable operation throughout. The flow switch version has a potentiometer to set the switch point and an LED indicator to indicate flows above this point. The output is a change in logic level that may be readily interfaced with a wide range of monitoring equipment. Built in hysterisis prevents output jitter at the set point. The pulse output is still available for recording purposes.

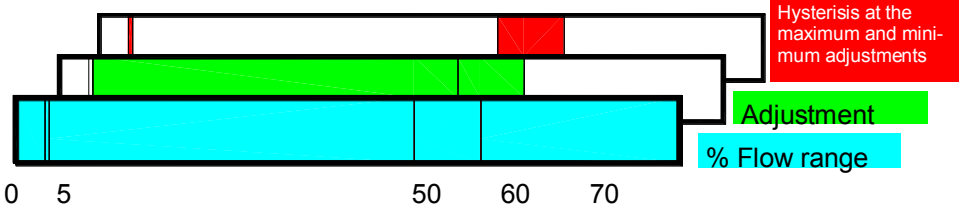


Sensor block diagram

Standard Materials of construction

Body and cap	-	Polyacetal & Nylon
'O' Ring seal	-	Nitrile
Bearings	-	Sapphire
End fittings	-	15mm brass compression

Flow switch with adjustable set point



Titan Enterprises Ltd, Coldharbour Business Park, Sherborne, Dorset, DT9 4JW, England. Tel 01935 812790 Fax 01935 812890 . www.flowmeters.co.uk