

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



TITAN ENTERPRISES
 LTD.

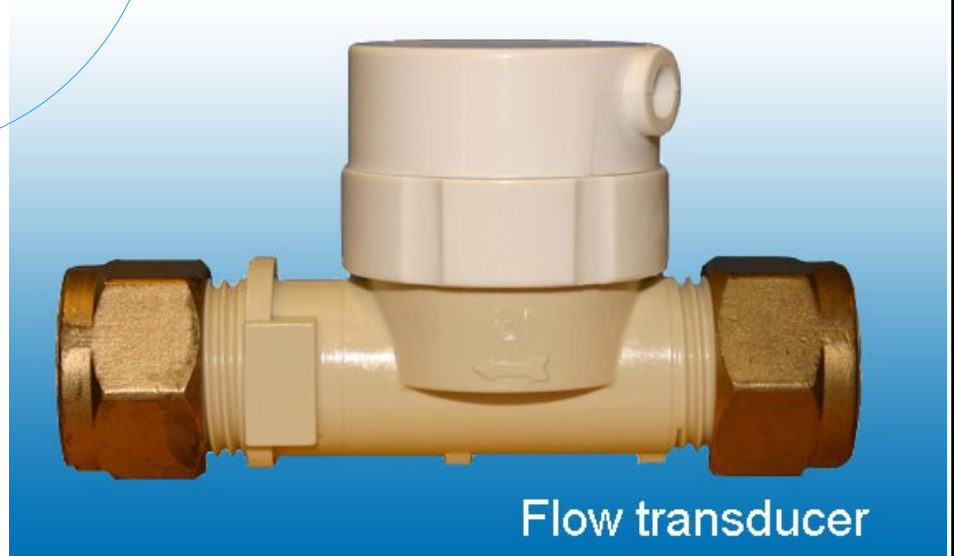
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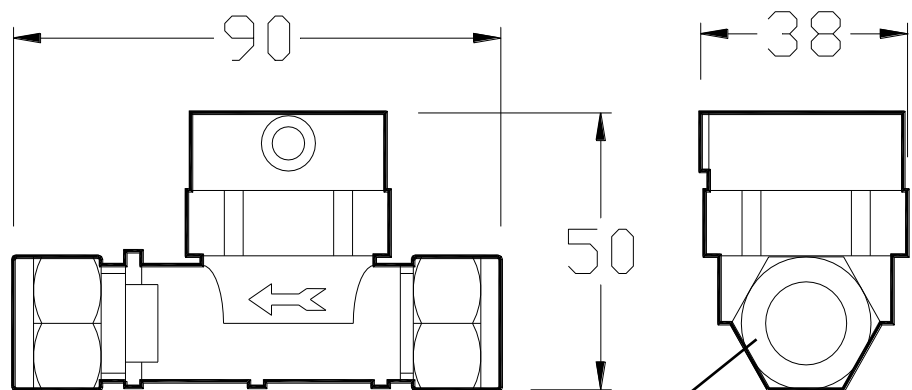
Web www.flowmeters.co.uk

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Flow transducer

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 an 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.



15mm compression fittings

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

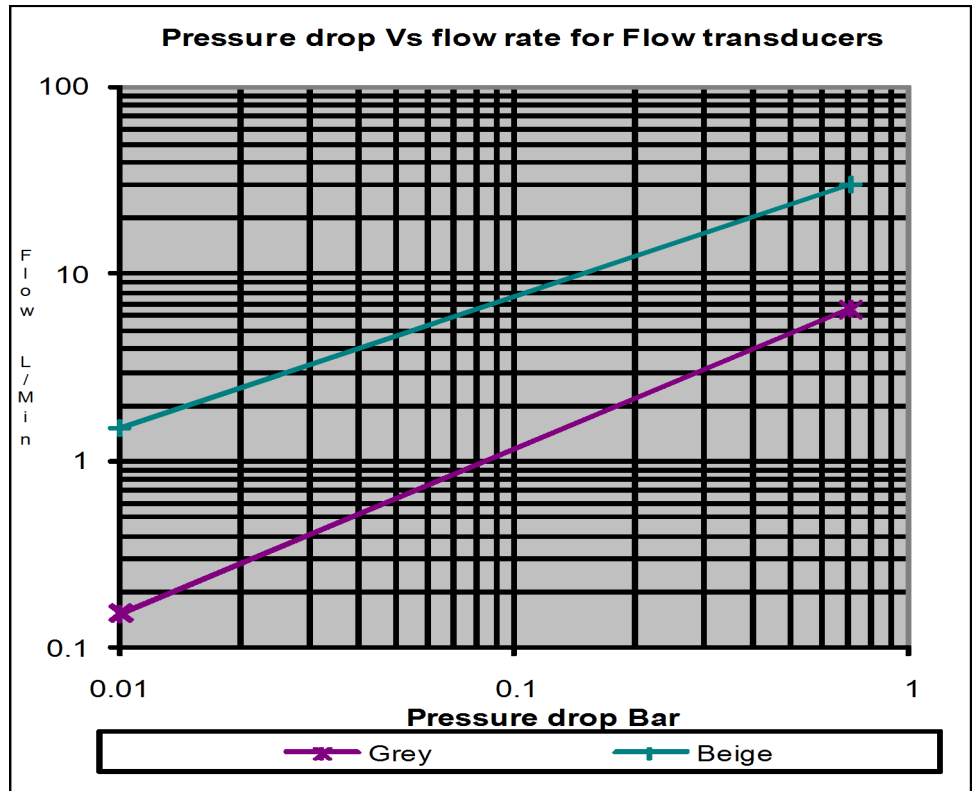
Flow switch * 163-011

* 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.

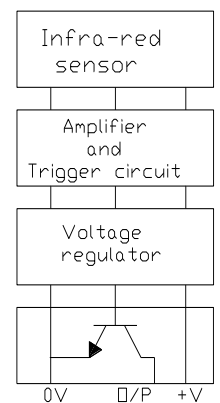
Standard Materials of construction

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

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 hysteresis prevents output jitter at the set point. The pulse output is still available for recording purposes.



Sensor block diagram

Flow switch with adjustable set point

