Flow Transducer
Technical Product data sheet

Features

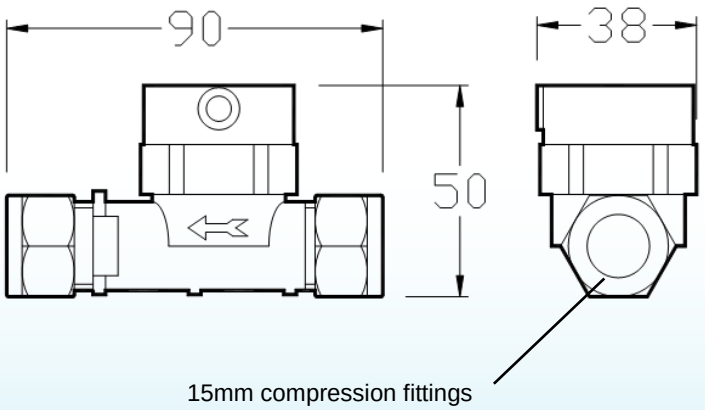
- Economical
- Acetal body
- 1½% FSD
- Sapphire bearings
- Optical sensing
- 2 Flow ranges
- Pulse output
- 15 Bar rating
- Nitrile seal
- 15mm fittings
- 0.25% Repeatability
- Various power options
- 70°C Max
- IP 54
- 0.080kg

Ideal for

- ♦ Drink dispensing
- ♦ Showers
- ♦ Cooling equipment
- ♦ Dishwashers
- ♦ Low viscosity fluids

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. 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.



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Flow Transducer

Order Codes

	Grey	Beige
Basic flowmeter	163-000	161-000
5 Volt with lead	163-009	161-009
7 - 24 Volt with lead	163-010	161-010

Standard Materials of Construction

Body and cap - Polyacetal & Nylon

'O' Ring seal - Nitrile

End Fittings - 15mm brass compression

Bearings - Sapphire

Standard Materials of Construction

Body and cap - Polyacetal & Nylon

'O' Ring seal – Viton™

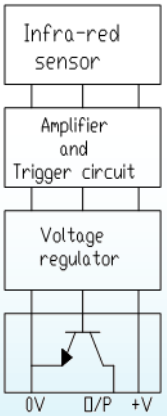
End Fittings -15mm brass compression

Bearings - Sapphire

Flow Transducer

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.

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



7-4 Volt sensor block diagram