

# Differential Pressure Transmitter



- Ultra low pressure measurement
- Wide span adjustment
- 2-wire mA, 3-wire or 4-wire voltage output
- Two configurable relays
- Square-root output for flow/velocity
- Polycarbonate enclosure

The FCO352 is a fully configurable IP66 rated low differential pressure transmitter available in 2, 3 or 4 wire configuration to suit a wide range of input and output configurations and has pneumatic connections for standard 54mm centre process manifolds.

The output is scalable as linear to differential pressure or as a square-root function to facilitate the use of Pitot Static Tubes or other primary flow elements.

The large LCD may display a variety of engineering units, and two independent relays can provide alarm signals.

The FCO352 can be adjusted from the integral four-button keypad or a PC using the FCO301 software utility and cable.

## Features

Models/Ranges	Model1: $\pm 50\text{Pa}$ Model2: $\pm 150\text{Pa}$ Model3: $\pm 500\text{Pa}$	Model4: $\pm 2500\text{Pa}$ Model5: $\pm 10\text{kPa}$ Model6: $\pm 20\text{kPa}$
Output Options	2 wire 4-20mA 3 wire voltage: 0-1 VDC to 0-10VDC full scale 4 wire voltage: 0-1 VDC to 0-10VDC full scale 4 wire voltage: $\pm 1$ VDC to $\pm 10$ VDC full scale 4 wire isolated: any of the mA or voltages above	
Display	Most common differential pressure, volumetric flow, mass flow, and velocity units	
Adjustable Damping	0.0 to 60.0 seconds	
Square Root function	Standard	
Trip Level Relays	Optional: 2 relays, rated 2A @ 55Vac, 30Vdc	
Zero Control	Optional: Automatic or Remote	
Pneumatic Ports	$\frac{1}{4}$ " BSP female fittings and mounting for 54mm centres manifold	

## Performance

Unipolar Accuracy @ 20°C	10% to 100% range: $< \pm (0.25\% \text{ reading} + 1 \text{ digit})$ 0 to 10% range: $< \pm (0.025\% \text{ range} + 1 \text{ digit})$
Bipolar Accuracy @ 20°C	10% to 100% range: $< \pm (0.5\% \text{ reading} + 1 \text{ digit})$ 0 to 10% range: $< \pm (0.05\% \text{ range} + 1 \text{ digit})$
Span Adjustment	10% to 100% of range Note: Span can be set anywhere within instruments range. For span $< 20\%$ of range, accuracy is reduced to the bipolar specification
Long Term Drift	Typically 0.2% per annum
Temperature Coefficients	Zero: $< 0.02\%/^{\circ}\text{C}$ Range: $< 0.02\%/^{\circ}\text{C}$
Working Temperature	-10 to 60°C
Minimum Step Response	100ms
Output Update	50ms
Output Resolution	Better than 0.033 % Span
Overload	100 x DP range
Static Pressure	-1 to +10 bar Gauge

## Construction

Enclosure	IP66 rated Polycarbonate, M20 cable gland entry Choice of mounting options
Dimensions	144 x 155 x 93mm
Materials in Contact With Media	Stainless steel, nickel, mica & PTFE
Media Compatibility	Air and non-corrosive gases max 95% humidity non-condensing
Weight	1.4kg

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Furness Controls has a UKAS accredited laboratory which offers pressure calibration from 0 to 40 kPa and flow calibration from 0.1 ml/min to 2000 litres/min

