


Intrinsically Safe Differential Pressure Transmitter



-  II 1 G ATEX Classification
- CENELEC Classification Ex ia IIC T5 Ga
- Accuracy 0.25% of reading
- Ultra low pressure measurement
- Wide span adjustment
- 2-wire, 4-20mA output

The FCO354 is a fully configurable, Intrinsically Safe IP65 rated low differential pressure transmitter, suitable for industrial applications of control, measurement and monitoring.

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 can display a variety of standard engineering units.

The FCO354 can be adjusted from a PC using the FCO301 software utility and cable (in a safe area).

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	
Display (Optional)	Most common differential pressure, volumetric flow, mass flow, and velocity units	
Adjustable Damping	0.0 to 60.0 seconds	
Square Root function	Standard	
Pneumatic Ports	$\frac{1}{4}$ " BSP female fittings and mounting for 54mm centres	

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
Temperature coefficients	Zero: $< 0.02\%/^{\circ}\text{C}$ Range: $< 0.02\%/^{\circ}\text{C}$
Working Temperature	-10 to 40°C
Minimum step response	100ms
Output Update	50ms
Long term drift	Typically 0.2% per annum
Overload	100 x DP range
Max. Static Pressure	-1 to +10 bar Gauge

Construction

Enclosure	IP65 ATEX rated Aluminium enclosure
Dimensions	166 x 160 x 94mm
Materials in contact with media	Stainless steel, nickel, mica & PTFE
Media Compatibility	Air and non-corrosive gases max 95% humidity non-condensing
Weight	3.5kg

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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

