Differential
Pressure Transmitter

FCO332

- Accuracy 0.25% of reading
- 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
- Auto zero and remote zero options
- Compact ABS enclosure

Suitable for a variety of clean environment applications, the FCO332 low differential pressure transmitter is available in a variety of voltage or current loop configurations.

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.

Furness Controls
Pressure|Flow|Leak Detection

FC0332

Features

Models/Ranges	Model 1: ±50Pa Model 2: ±150Pa Model 3: ±500Pa	Model 4: ±2500Pa Model 5: ±10kPa Model 6: ±20kPa	Model 7: ±30kPa Model 8: ±1bar Model 9: -1bar to +2bar	Model 10: -1bar to +6bar Model 11: -1bar to +10bar
Output Options	2 wire 4-20mA (only available for models 1 to 7) 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: ±1 VDC to ±10 VDC full scale 4 wire isolated: any of the mA (only available for models 1 to 7) or voltages above			
Display (Optional)	Most common differential pressure, volumetric flow, mass flow, and velocity units			
Adjustable Damping	0.0 to 60.0 seconds			
Square Root function	Optional			
Trip Level Relays	Optional: 2 relays, rated 2A @ 55Vac, 30Vdc			
Zero Control	Optional: Automatic or Remote			
Pneumatic Ports	Barbs with locknuts for 6mm OD x 4mm ID for flexible tubing Options for 4mmOD x 3mm ID tube fittings, ⅛"BSPF or ¼"BSPF			

Performance

Enhanced Accuracy @ 20°C	10% to 100% range: 0 to 10% range:	< ± (0.25% reading +1 digit) < ± (0.025% range +1 digit)	Note: Unipolar span only, standardv accuracy applies to bipolar span.
Standard Accuracy @ 20°C	10% to 100% range: 0 to 10% range:	< ± (0.5% reading +1 digit) < ± (0.05% range +1 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 standard specification	
Long Term Drift	Typically 0.2% per annum		
Temperature Coefficients	Standard Zero: < 0.2%/°C Range: < 0.4%/°C	Enhanced Zero: < 0.02%/°C Range: < 0.02%/°C	
Working Temperature	-10 to 60°C		
Output Resolution	Better than 0.033 % Span		
Overload	20 x DP range		
Static Pressure	±1 bar Gauge		
Minimum Step Response	100ms		
Output Update	50ms		

Configuration	**Output**	**Supply Voltage**
2-Wire	4 to 20mA	9 to 40Vdc, 22mA
3-Wire	0 to 1V, 0 to 2V, 0 to 5V	9 to 36Vdc, 5mA
3-Wire	0 to 10V	14 to 36Vdc, 5mA
4-Wire	0 to 1V, 0 to 2V, 0 to 5V ±1V, ±2V, ±5V	±9 to ±18Vdc, 5mA
4-Wire	±10V	±14 to ±18Vdc, 5mA
4-Wire Isolated	4 to 20mA, 0 to 1V, 0 to 2V, 0 to 5V, 0 to 10V, ±1V, ±2V, ±5V, ±10V	24Vdc ±10%, 12mA
Relays	24Vdc ±10%, 50mA	
Auto Zero	24Vdc ±10%, 30mA	

Construction

Enclosure	IP54 rated ABS Choice of mounting options
Dimensions	120 x 80 x 58mm
Materials in Contact With Media	Copper, brass, nickel, mica & PVC
Media Compatibility	Air and non-corrosive gases max 95% humidity non-condensing
Weight	0.5kg

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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

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