

Differential Pressure **TRANSMITTER**



High Performance Programmable **2-WIRE INDUSTRIAL TRANSMITTER**

- ULTRA LOW RANGES DOWN TO ± 0.0200 "wg FULLSCALE
- ACCURACY $\pm 0.25\%$ OF READING
- ADJUSTABLE SPAN 10-100%
- SQUARE ROOT FOR FLOW/VELOCITY
- LOCAL AND PC PROGRAMMABLE
- INTEGRAL LCD - SELECTABLE DISPLAY UNITS
- SECURITY PIN ACCESS CODE

Differential Pressure TRANSMITTER

DESCRIPTION:

The FCO352 is a fully configurable, industrial differential pressure transmitter with a two wire (4-20mA) interface.

The core transducer is based on the proven Furness Controls capacitive design.

Micro-processor selection of all functions is via an integral four-button keypad or a PC.

An alphanumeric 4½ digit LCD is provided for commissioning and signal display.

Output can be scaled as linear or as a square root function.

The FCO352 is housed in a compact, robust, polycarbonate enclosure rated to IP66 and has pneumatic connections for standard 54mm centre process manifolds.

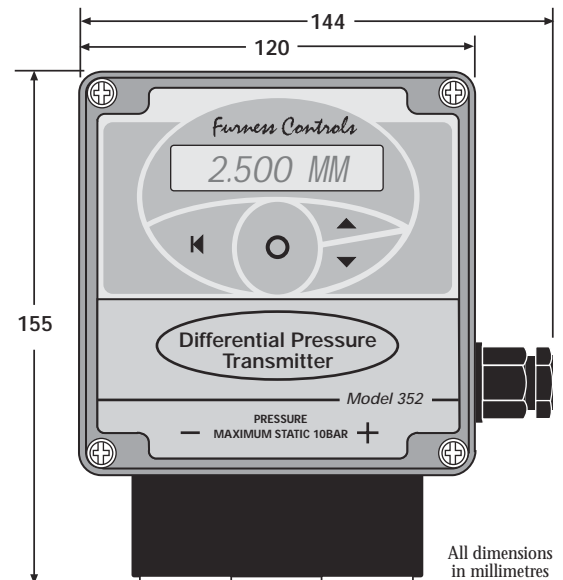
SPECIFICATIONS

FEATURES AND FUNCTIONS:

- Available ranges: any from ± 0.200 "wg to ± 80.00 "wg or any equivalent unit.
- Selectable square-root facility
- 4 - 20mA output, supply 12-40 VDC
- Temperature compensation for zero and span
- Available pressure units - Pa, kPa, mmH₂O, mbar, mmHg, "H₂O, "Hg
- Available volume flow units - l/s, l/min, l/hr, cf/s, cf/min, cf/hr, m³/s, m³/min, m³/hr
- Available mass flow units - lb/s, lb/min, lb/hr, kg/s, kg/min, kg/hr
- Available velocity units - m/s, ft/s, mph, ft/min
- Available misc. units - mA, %, none
- 4½ digit LCD
- Adjustable signal damping 0.1 - 60 secs
- Zero reset key
- Internal error indication output - high 21.0 mA or low 3.0 mA
- 4 digit security access code
- Supplied with ¼" BSP female fitting and mounting for 54mm centres manifold
- M20 cable entry. Gland supplied for 7-10mm cable

Agents Stamp:

ST-65040023/05-04 ISSUE 2



All dimensions in millimetres

PERFORMANCE:

Accuracy	$\pm 0.25\%$ of reading
Span adjustment	10-100% range
Transducer zero range	$\pm 10\%$
Linearity	$< \pm 0.1\%$ of reading
Hysteresis	$< 0.1\%$ of reading
Measurement resolution	1:25000
Temperature coefficient (zero)	$\pm 0.01\%/^{\circ}\text{C}$
Temperature coefficient (span)	$\pm 0.01\%/^{\circ}\text{C}$
Temperature compensation	-10 to 60°C
Temperature working limits	-10 to 60°C
Temperature storage limits	-10 to 70°C
Static working pressure	0 to 11 Bar absolute
Overpressure rating	100 x DP range

CONSTRUCTION:

- Polycarbonate IP66 rated enclosure
- Materials in media contact: stainless steel, mica, PTFE
- Media compatibility - non-corrosive gases, max 95% humidity non-condensing
- Dimensions: 120 x 155 x 93 mm (w x h x d) excl. gland
- Weight: 1.4 kg

ACCESSORIES:

- UKAS traceable calibration
- FCO301 series PC utility software
- 3 valve manifold
- Stainless steel engraved tag