Furness Controls

FCO520

Pressure and Flow Meter

AIRPRO

FCO520

DESCRIPTION

The FCO520 AirPro Pressure and Flow Meter is a portable microprocessor based instrument which measures low differential pressures in a choice of units, and velocity when paired with Pitot tubes. Volume flow can be monitored by entering the duct area into the instrument menu, and all readings can be recorded into the memory for subsequent down-loading via an RS232 interface. The FCO520 features a high contrast LCD alpha-numeric display with backlighting and push button selection of engineering units.

Being of compact size, the hand-held AirPro is ideal for instrument and commissioning engineers in the many industries where low pressure and airflows need to be measured with accuracy.

The AirPro can also be used to measure air temperature by a thermistor built into the Pitot static tube or by a separate temperture probe. In addition, an optional absolute pressure sensor built into the AirPro measuring instrument can measure and display either absolute or gauge pressure. With both temperature and absolute devices fitted, the AirPro can calculate, measure and display mass flow.

Such features have already been appreciated by customers using the FCO510 Laboratory Micromanometer employed extensively in research applications and in the armed forces.

As with all Furness Controls instruments, traceability to National Standards via the patented FRS4 primary standard gives confidence of accuracy to the highest levels. Calibration checks can be carried out annually by Furness Controls or at more frequent intervals by customers who already have the PPC500 Calibration Unit.

A versatile compact pressure and airflow instrument, the AirPro will meet the exacting needs of the market in virtually all industries.

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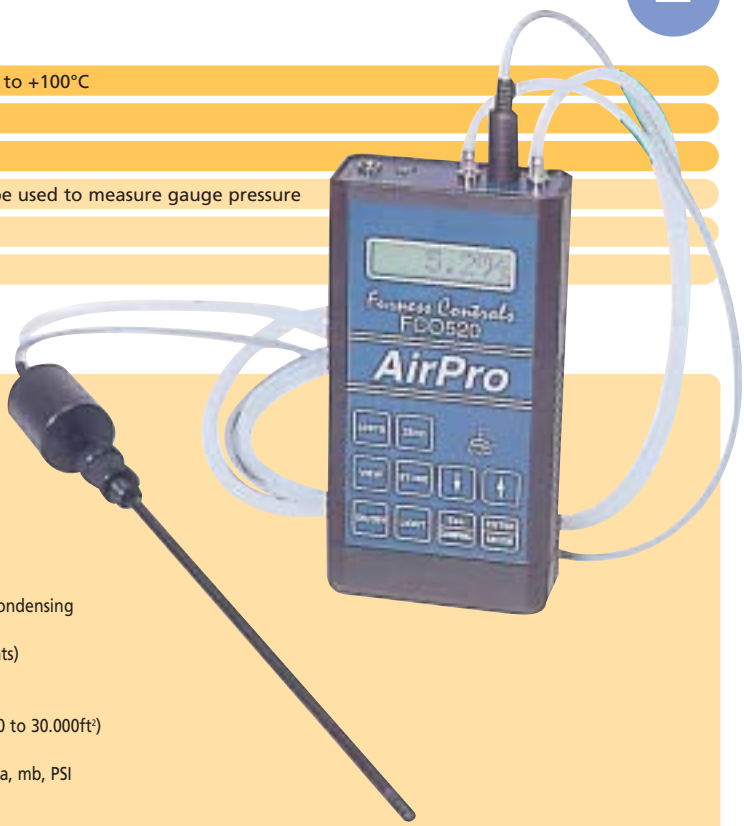
OPTIONS

- FCO521 Pitot Tube with temperature sensor -10°C to +100°C
- FCO522 Temperature Probe
- FCO65 or FCO66 Pitot Static Tubes
- Internal absolute pressure sensor which can also be used to measure gauge pressure
- External power supply
- Carrying case



SPECIFICATION

DP ranges	±600 Pa, ±6 kPa, ±20 kPa
Velocity ranges	31 m/sec, 100 m/sec, 180m/sec
Static working pressure	0.5 to 1.5 bar Abs
Temperature limits	-10°C to 70°C storage, 0°C to 50°C working
Pressure connections	Push on tube 4mm ID
Working medium	Air
Humidity	maximum 90% non-condensing
Datalogging	2,500 readings (50 records of 50 points)
Accuracy	±0.25% FSD
Zero	Semi-automatic
Duct area	10 to 30,000cm² (0.010 to 30.000ft²)
Units	
Differential pressure	mm H^2O, "H^2O, Pa. kPa, mb, PSI
Velocity	m/sec, ft/sec
Volume flow	m^3/sec, ft^3/sec, CFM
Mass flow	kg/sec, lb/sec
Absolute pressure	mbar, "Hg, PSI
Gauge pressure	mbar, "Hg, PSI
Temperature	°C, °F
Materials in contact	Copper, brass, mica, PVC, stainless steel
External supply	7.5 VDC
Batteries	4 x AA cell
Battery Life	Minimum 100 hours use without use of backlight
Dimensions including fittings	216 mm x 100 mm x 40 mm
Net Weight	630g

Supplied with MO521 Pitot Tube, RS232 Conversion table to 9 pin 'D' socket and 1 metre of silicon rubber twin tubing

Agents Stamp:

ST-65 XXXXXXXXXX

Furness Controls Limited

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

nqa. ISO 9001 Registered

UKAS QUALITY MANAGEMENT 015

FCO520