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DATASHEET



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WHY BUY
WHEN YOU CAN HIRE

Pressure and Flow Meter **AIRPRO**



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 temperature 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.

Pressure and Flow Meter

AIRPRO

FC0520

OPTIONS

- FC0521 Pitot Tube with temperature sensor -10°C to +100°C
- FC0522 Temperature Probe
- FC065 or FC066 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 30,000cm ² (0.010 to 30.000ft ²) |
| Units | |
| Differential pressure | mm H ₂ O, "H ₂ O, 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 XXXXXXXXXXXX

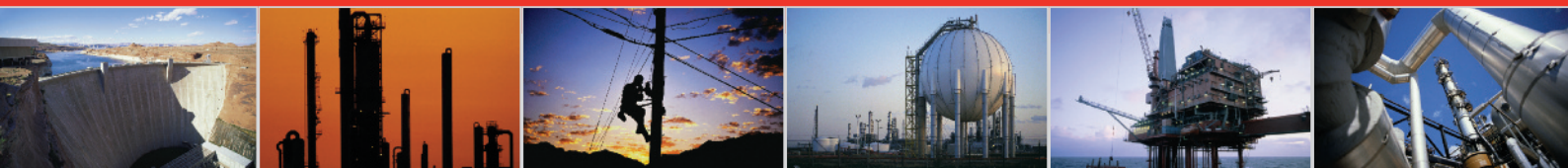
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Furness Controls has a UKAS certified laboratory which offers pressure calibration from 0 to 40 kPa and Flow calibration from 0.1 ml/min to 2000 litres/min



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*subject to availability and conditions

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