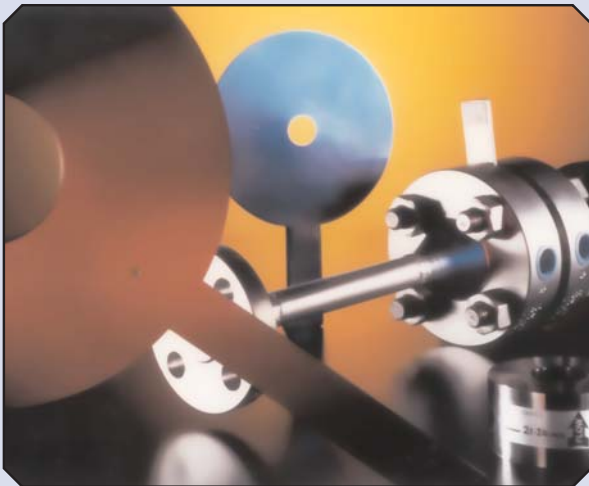


## DP Sensors

### DP FLOW SENSORS AND SYSTEMS – THE RANGE

Differential pressure based flow sensor elements are long established methods for gas, liquid or steam flow metering – as specified in such standards as BS1042 and ISO 5167.

Roxspur manufactures orifice plates and associated flow measurement systems, designed and built to suit the customer process requirement. This introduction shows some examples of the product capabilities and standard ranges available from Roxspur Measurement & Control Ltd.



### SHUNT BYPASS FLOW INDICATOR

A direct reading, visual display of the flow rate of gas or liquid in lines to 24" diameter is given on a glass tube flowmeter connected as a bypass across an orifice plate and carrier in the flowline.

A very cost-effective system with 5:1 flow turndown, custom scaled to the actual line conditions. Special versions with LPCB approval are supplied for use as test meters in Fire Sprinkler Systems.



### FLO-BAR PITOT TUBE

The Flo-Bar is an averaging pitot tube flow sensor, easily retrofitted onto existing flowlines. The multiple port upstream sensor and unique profile gives wide flow rangeability – standard design includes a 3 valve manifold for direct connection of a standard DP cell.

Pitot tube systems give less overall line pressure loss than orifice plates. For lower velocity air flows in ventilation or extraction ducts, the Roxspur Microbar DP transmitter is used with the Flo-Bar, monitoring down to 0.1" WG (25 Pascals) full scale – and giving a flow proportional output. See Data Sheet DS1710 (Flo-Bar) and DS1720 (Microbar).



## STANDARD DP FLOW ELEMENTS

RM&C offer a range of orifice plates and carriers manufactured according to BS1042 and ISO5167, for gas, liquid or steam measurement. Styles include tab handled slip orifice plates, integral and split ring carriers, ANSI B16.36 weld neck orifice flange assemblies and complete calibrated pipe sections.

Element can be supplied with conventional DP cells to any site standard, or simple DP indicators.

See Data Sheet DS1721/4.



## SENSOR ARRAYS AND SAMPLING SYSTEMS

Gaseous emission monitoring on ventilation or extraction ducts is becoming more important to comply with current legislation. RM&C have produced systems for such flow monitoring, using pitot arrays combined with sampling nozzles for particulate or gaseous monitoring, in ducts as large as 3m diameter. Complete sample extraction and analysis packages are produced and installed on a turnkey project basis.

Please contact our Sales department for more information.



*Every effort has been made during the preparation of this document to ensure the accuracy of statements and specifications. However, we do not accept liability for damage, injury, loss or expense caused by errors or omissions made. We reserve the right to withdraw or amend products or documentation without notice.*

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