

WatsonSmith

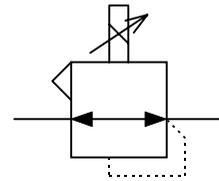
TYPE 423 FAIL SAFE ELECTRONIC I/P CONVERTER

FEATURES

- Advanced electronic control
- Fail-safe operation (output pressure falls to minimum on power failure)
- Vibration immune
- Weatherproof

GENERAL DESCRIPTION

The 423 proportional I/P converter uses advanced electronic control to achieve outstanding performance. It has a rugged construction, vibration immunity and weatherproofing making it ideal for field applications.



Functional Symbol

TECHNICAL DATA

PNEUMATIC

•Output Signal	0.2-1bar (3-15psig); minimum outlet pressure less than 140mbar (2psig)
•Air Supply	Oil free, dry air, filtered to 3 microns; 1.5-3.5bar(20-50psig) or at least 0.7bar above maximum output pressure
•Flow Capacity	Up to 300NI/min (10scfm)
•Air Consumption	0.6l/min typical (0.02scfm)
•Response Time	5 seconds (from 10 to 90% of output pressure into a 0.5 litre load)
•Total Error	Max. error $\pm 0.5\%$ of span (typical, independent error includes combined effect of non-linearity, hysteresis, deadzone and repeatability)
•Temperature Effect	Typically better than 1% span between -10°C and 60°C
•Connections	1/4" NPT female standard (plus two integral 1/4" NPT gauge ports); others available on request

PHYSICAL

•Operating Temperature	-20°C to $+70^{\circ}\text{C}$
•I.P. Rating	IP65
•Vibration	The unit possesses a high degree of immunity
•Electromagnetic Compatibility	Compliant and CE marked in accordance with the EC E.M.C. directive. Tested to standards: BS EN50082-2: 1995 BS EN50081-2: 1994
•Material of Construction	Zinc diecasting passivated and epoxy painted, Verton glass/nylon cover; Nitrile diaphragms
•Mass	800g
•Mounting Position	Operation in any attitude is possible without recalibration; integral surface mounting bracket provided for vertical mounting

ELECTRICAL

•Electrical Signal	4-20mA (two wire)	•Connections	30mm square connector DIN43650 provided, mountable in four directions. Others available on request
•Failure Mode	Signal falls below 15mbar(0.2psig) when input signal fails		



Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.



UK Office

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Please note - Product designs and specifications are subject to change without notice. The user is responsible for determining the suitability of this product.