WatsonSmith

MODULAR (I/P) PILOT BOOSTER TYPE 120

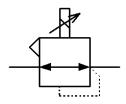
FEATURES

- Low Cost OEM I/P
- Valve Positioner Pilot
- Compact and Rugged
- Specific Application Customising
- Wide Supply Range Available



GENERAL DESCRIPTION

The 120 Pilot Booster I/P converter uses proven moving coil and flapper/nozzle technology, with a built in flow regulator to minimize supply pressure effects. Available in a variety of packages including Explosion Proof enclosures for incorporation into OEM products.



Functional Symbol

TECHNICAL DATA

PNEUMATIC

•Output Pressure 0.2-1bar (3-15psig);

•Air Supply Oil free, dry air, filtered to <5 microns;

1.4-10 bar (20-150 psig)

•Flow Capacity <1.5nl/min

•Air Consumption <1.5 nl/min typical

•Response Time </=650msecs from 10 to 90% or

</=350ms from 90 to 10% of output

pressure into a 4.5cc load)

•Linearity +/-0.5% of span •Hysteresis +/-0.3% of span

•Temperature Effect Typically less than 0.2% span/degC

between -40°C to +85°C

•Supply Sensitivity Less than+/- 0.15% of span for supply

pressure change

•Connections customised to suit customer

requirements

PHYSICAL

•Operating Temperature -40°C to +85°C

Weatherproofing IP20

•Vibration Output pressure changes less than 2% for

2g sine 20-100Hz,

•Electromagnetic Compliant with EC requirements EN

Compatibility 50081-2:1994(Emmissions) and EN50082-

2:1995(Immunity)

•Material of Construction Zinc diecasting with nitrile

diaphragms, customer specific enclosures

available

•Mounting Position Any, to be specified by customer



Electrical Signal

4-20mA (two wire);

Loop Resistance 2300hmFailure Mode Signal fal

Signal falls to below 15mbar (0.2psig) in <

2sec, when input signal fails

Insulation Resistance

>100MOhm at 850Vdc, electrical terminals

to case

•Connections

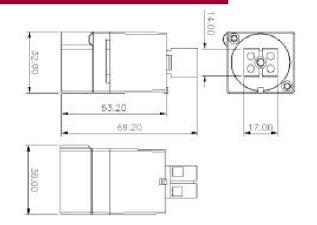
Clamping screw connector terminals or flying

leads to customer requirements.





INSTALLATION DIAGRAM



CHARACTERISTIC GRAPHS

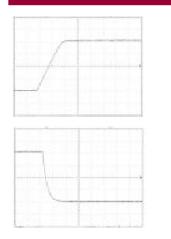


Chart displays 313ms; 10-90% of output pressure

Chart displays 124ms; 90-10% of output pressure

HAZARDOUS AREA CERTIFICATION

The Type 120 can be supplied certified for use in intrinsically safe and flameproof applications, to CENELEC, FM and CSA requirements. For certification and customised units please contact the factory.

ORDERING INFORMATION

Options to special order:

Standard 1/8" ported base Alternative pressure ranges Optional Enclosures Orientation and Application Specific Calibration set-up

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