Hydraulic and Pneumatic Pressure Monitor Range

AUSTRALIAN DESIGNED AND BUILT
SUITABLE FOR CATEGORY 4 APPLICATIONS

As per AS4024.1 – Parts 1501 & 1502  
SIL as per IEC 61508 & EN ISO 13849

Applications: Safety pressure monitoring, confirmation of accumulator bleed off for guard access preconditions, back pressure detection and process control.

Fluidsentry Pty Ltd
P.O.Box 8135
(1 / 32 –34 Frankston Gardens Drive)
Carrum Downs Victoria 3201  Australia
Ph: +61 (0)3 9776 4352 - Fax: +61 (0)3 9776 4372
e-mail: sales@fluidsentry.com
www.fluidsentry.com

© Fluidsentry Pty Ltd ACN 109 094 975  December 2011
**Fluidsentry™**

**MONITOR SPECIFICATIONS**

**Description:** Safety pressure monitors have been designed to interface into new or existing safety systems where residual pressure must be depleted. The monitors consist of a non-adjustable preset between 3 & 6 psi switchover on depressurization and 15 psi switchover on rising pressure. The pressure monitor incorporates a two-pole positive driven plunger type switch, with positive opening contact pre-approved to category 4 safety applications. A single pressure monitor is suitable for category 2 applications when used in conjunction with another safety function or two independent units are suitable for pressure monitoring in category three or four applications.

**Models:**
- Single monitor: HPS4B2-A (Aluminium 200 Bar)
- Single monitor: HPS4B2-S (Steel 340 Bar)

**Materials:**
- Main body: Aluminium or Steel
- Piston housing: Steel
- Piston: Aluminium Bronze
- Glide Seal: PTFE
- Energizer Seal: Nitrile Rubber
- Return spring: Mild Steel
- Piston Housing Seal: Nitrile rubber
- Screws: Cap Screws M8X20
- Lubricant: Molykote 55M

**Switch Point:** Normally closed contact (Black/White) 3-6 psi (20-40kPa)

**Switch:**
- Make: Bernstein
- Model: C2-U1Z (600.8101.001)
- Type: Plunger
- Approvals: En 60947-1, EN 60947-5-1, VDE 0660/100/200
- Contacts: 1 x Normally Open, 1 x Normally closed

**Wiring:**
- Switch Terminals:
  - Normally Closed 11 – 12 White – Black
  - Normally Open 21 – 22 Brown – blue

**Coil:**
- Voltages available: 24vdc
- Power Consumption @ 24VDC:
  - Cetop 3 30 Watts
  - Cetop 5 36 watts

**Performance:**
- Valve working pressure range: 0-200 Bar (Aluminum) 0 – 340 Bar (Steel)
- Single monitor port connection: 1/4” BSP
- Medium: Compressed air filtered & lubricated or Hydraulic
- Operating temperature range: -5 C to +50 C

**Rating:**
- Protection: IP 65

**Approvals:**

**Manual:**
- Manual Override: Removed
DECLARATION OF CONFORMITY

Pressure monitors and valves manufactured by Fluidsentry Pty Ltd conform to the requirements of the following Directives and European Standards.


EMC Directive: 89/336/EEC – EN 55014, EN 50081-2, EN 50082-1, EN 50082-2


Electro Pneumatics Pty Ltd herewith declares that the supplied Fluidsentry™ models of:

VALVES: MODEL HPS4B2

TYPE: PRESSURE MONITORS
      SINGLE VALVES WITH PRESSURE MONITORS

Comply with all applicable Directives and Harmonized Standards for Pneumatic Fluid Power Systems and their components and are qualified to bear the CE mark.

FLUIDSENTRY™
ACN 109 094 975
PO Box 8135
Carrum Downs Vic 3201
AUSTRALIA.
Phone: +61 (0)3 9776 4352
Fax: +61 (0)3 9776 4372
Email: sales@fluidsentry.com

Murray Andrew Hodges
Name and signature of
Authorized person.

Manifold Number: __________________________
Serial Number: __________________________
Tested: ______/_____/_________
** Valves should be cycled a minimum once for every 8 hours of continual operation

*Note: A safety pressure monitor is for confirming depressurisation. It does not control or prevent pressure.

CAUTION – IMPORTANT: The above drawings are a conceptual example and are intended for guidance Purposes only. They have not been specifically drawn in relation to your plant. Failing to ensure professional installation of Fluidsentry equipment which has regard to the specific circuit design and operation of the plant on which it is being installed may create a safety hazard. Accordingly Fluidsentry is not liable for loss or injury, whether direct or indirect, resulting from the incorrect installation of this product.