MODEL: BPV

Space-saving Two-wire Signal Conditioners B-UNIT

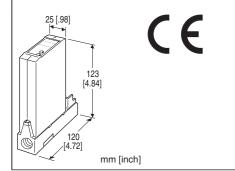
P/I TRANSDUCER

Functions & Features

- Converting a standard pneumatic signal into a proportional 4 20 mA DC output
- Monitor terminals
- High-density mounting

Typical Applications

• Converting a pneumatic system into a 4 – 20 mA for indicating and controlling in DCS system



MODEL: BPV-[1][2]

ORDERING INFORMATION

• Code number: BPV-[1][2]

Specify a code from below for each of [1] and [2]. (e.g. BPV-2/A2S/Q)

 Specify the specification for option code /Q (e.g. /C01/S01)

[1] PNEUMATIC CONNECTION

2: Rc 1/4"

5: Rc 1/8" fitting

7: 1/4" NPT fitting

[2] OPTIONS (multiple selections)

Input

blank: 0.2 - 1.0 kgf/cm² /A1S: 19.6 - 98.1 kPa /A2S: 20 - 100 kPa /A3S: 20.7 - 103.4 kPa /A2: 0.2 - 1.0 bar /A3: 3 - 15 psig

Other Options blank: none

/Q: Option other than the above (specify the specification)

SPECIFICATIONS OF OPTION: Q (multiple selections)

COATING (For the detail, refer to our web site.)

/C01: Silicone coating /C02: Polyurethane coating /C03: Rubber coating

TERMINAL SCREW MATERIAL

/S01: Stainless steel

GENERAL SPECIFICATIONS

Construction: Plug-in

Connection

Output: M3.5 screw terminals (torque 0.8 N·m) **Pneumatic**: Rc 1/4", Rc 1/8" or 1/4" NPT female

(torque ≤ 12 N·m)

Material

Housing: Flame-resistant resin (black) **Base socket**: Die cast aluminium

Screw terminals: Nickel-plated steel(standard) or stainless

steel

Zero adjustment: -5 to +5 % (front) **Span adjustment**: 95 to 105 % (front)

INPUT SPECIFICATIONS

■ Input

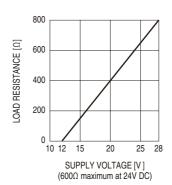
19.6 - 98.1 kPa, 0.2 - 1.0 kgf/cm² 20 - 100 kPa, 0.2 - 1.0 bar 20.7 - 103.4 kPa, 3 - 15 psig

OUTPUT SPECIFICATIONS

Output: 4 - 20 mA DC

Load resistance vs. supply voltage:

Load Resistance (Ω) = (Supply Voltage (V) - 12 (V)) ÷ 0.02 (A) (including leadwire resistance)



INSTALLATION

Supply voltage: 12 - 28 V DC

Operating temperature: -10 to +60°C (14 to 140°F)
Operating humidity: 30 to 90 %RH (non-condensing)
Mounting: Surface; Standard Rack Mounting Frame (BX-

16H) available

Weight: 300 g (0.66 lb)

PERFORMANCE in percentage of span

Accuracy: ±0.3 %

Temp. coefficient: ± 0.03 %/°C (± 0.02 %/°F) Response time: ≤ 0.5 sec. (0 - 90 %)

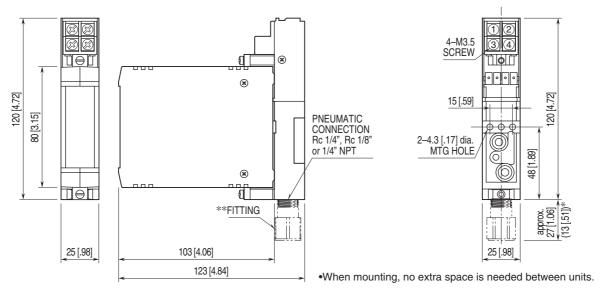
Permissible overrange: 196 kPa (2.0 kgf/cm², 1.96 bar, 28

psig)

STANDARDS & APPROVALS

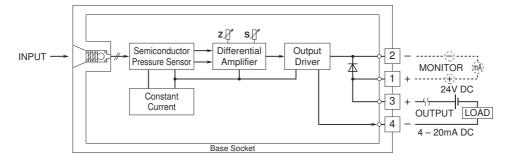
EU conformity: EMC Directive EMI EN 61000-6-4 EMS EN 61000-6-2 RoHS Directive

EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm [inch]



* () for Rc 1/8".

SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



^{**}Fitting provided for Rc 1/8" or 1/4" NPT connection.

⚠ Specifications are subject to change without notice.