MODEL: HVPN

Space-saving Plug-in Signal Conditioners H-UNIT

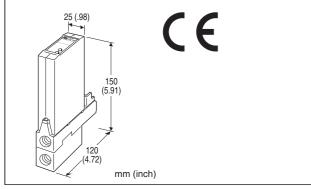
LOOP POWERED I/P TRANSDUCER

Functions & Features

- Converting a DC input into a proportional standard pneumatic signal
- Loop powered
- Semiconductor pressure sensor in the feedback circuit
- · High resolution
- No mounting position effect
- · Highdensity mounting

Typical Applications

 Converting a 4 – 20 mA from a PID controller into a pneumatic signal



MODEL: HVPN-[1]A[2]

ORDERING INFORMATION

• Code number: HVPN-[1]A[2] Specify a code from below for each [1] and [2]. (e.g. HVPN-2A2S)

[1] PNEUMATIC CONNECTION

2: Rc 1/4"

7: 1/4" NPT fitting

INPUT

Current

A: 4 - 20 mA DC

[2] **OUTPUT**

15: 19.6 - 98.1 kPa

2S: 20 - 100 kPa

3S: 20.7 - 103.4 kPa

1: 0.2 - 1.0 kgf/cm²

2: 0.2 - 1.0 bar

3: 3 - 15 psig

RELATED PRODUCTS

Mounting Block is required. See the data sheet for model MB

•Code number of the Mounting Block (e.g. MB-08)

GENERAL SPECIFICATIONS

Construction: Plug-in

Connection

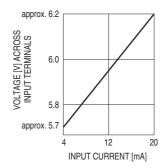
(torque $\leq 12 \text{ N} \cdot \text{m}$)

Material

Housing: Flame-resistant resin (black)
Base socket: Die cast aluminium
Valve section: Die cast aluminium
Screw terminals: Nickel-plated steel;
Zero adjustment: -5 to +5 % (front)
Span adjustment: 95 to 105 % (front)

INPUT SPECIFICATIONS

Equivalent input impedance: Approx. 310 Ω at 20 mA The voltage measure at the input terminals changes corresponding to the input signal as in the diagram below. Be sure that the device at the input side allows the load increase.



OUTPUT SPECIFICATIONS

■ Output:

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

The output goes below 0 % if the input loop is open.

Maximum air delivery: 60 NI/minute (2.1 SCFM)

Maximum air exhaust: 60 NI/minute (2.1 SCFM)

INSTALLATION

Supply pressure: 140 kPa (1.4 kgf/cm 2 , 1.4 bar, 20 psig) ± 10 %

Use dry air containing no carbon black or other foreign particles. To ensure reliability use an air filter (0.01 microns).

MODEL: HVPN

Air consumption: 6 NI/minute (0.21 SCFM)

Operating temperature: -5 to +55°C (23 to 131°F)
Operating humidity: 30 to 90 %RH (non-condensing)
Mounting: Surface; Standard Rack Mounting Frame (BX-

16H) available

Weight: 400 g (0.88 lbs)

PERFORMANCE in percentage of span

Accuracy: ±0.3 % including linearity and repeatability

Linearity: ±0.2 % Repeatability: 0.1 %

Temp. coefficient: ±0.05 %/°C (±0.03 %/°F)

Response time: \leq 3 sec. (0 - 90 %)

Mounting position effect: ±0.1 % (all dimensions) **Dielectric strength**: 1500 V AC @ 1 minute

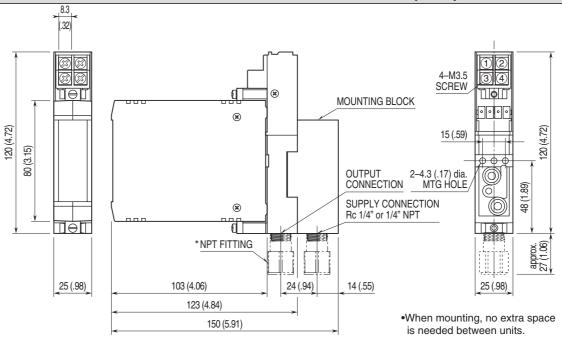
(input to housing)

STANDARDS & APPROVALS

CE conformity:

EMC Directive (2004/108/EC) EMI EN 61000-6-4: 2007 EMS EN 61000-6-2: 2005

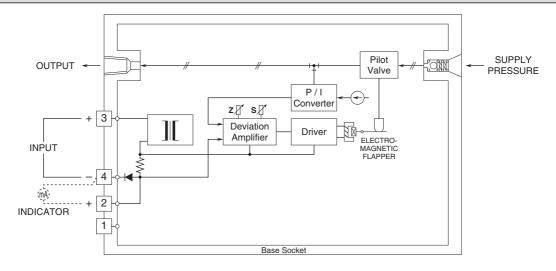
EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm (inch)



*Fitting is provided for 1/4" NPT connection.

MODEL: HVPN

SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



A

Specifications are subject to change without notice.

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