

Plug-in Signal Conditioners M-UNIT

I/P TRANSDUCER	MODEL VP
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MODEL & SUFFIX CODE SELECTION

MODEL _____ VP-□-□□

INPUT _____

A : 4 – 20mA DC

6 : 1 – 5V DC

POWER INPUT _____

AC Power	DC Power
B : 100V AC	G : 200V AC
C : 110V AC	H : 220V AC
D : 115V AC	J : 240V AC
F : 120V AC	V : 48V DC
S : 12V DC	R : 24V DC

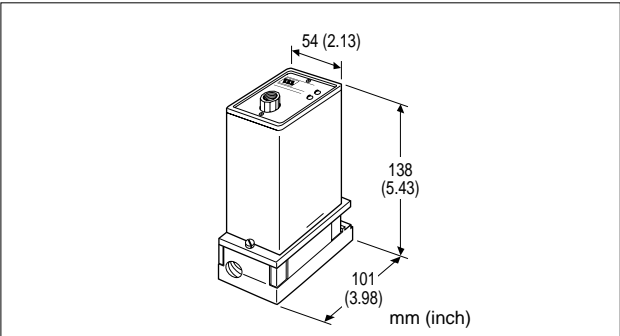
- OPTIONS**
- **Output**
 - (blank): 0.2 – 1.0 kgf/cm²
 - /A1S: 19.6 – 98.1 kPa
 - /A2S: 20 – 100 kPa
 - /A3S: 20.7 – 103.4 kPa
 - /A2 : 0.2 – 1.0 bar
 - /A3 : 3 – 15 psig
 - **Pneumatic Connection:** Rc 1/4" standard
 - /P7 : 1/4" NPT fitting

ORDERING INFORMATION

Specify code number. (e.g. VP-6-B/A2S/P7)

GENERAL SPECIFICATIONS

- Construction:** plug-in
- Material**
- Housing:** flame-resistant resin (black)
 - Base socket:** die cast aluminium
 - Valve section:** die cast aluminium
 - Screw terminals:** nickel-plated steel; torque ≤0.8 N·m
- Connection**
- Input & power input:** M3.5 screw terminals
 - Pneumatic:** Rc 1/4" or 1/4" NPT female; torque ≤12 N·m
- Isolation:** input to power
- Front adjustments:** zero and span; ±5%



- Functions & Features**
- Converting a DC input into a proportional standard pneumatic signal
 - Semiconductor pressure sensor in the feedback circuit
 - High resolution
 - No mounting position effect
 - High-density mounting
- Typical Applications**
- Converting a 4 – 20mA from a PID controller into a pneumatic signal

INPUT & OUTPUT

- **INPUT**
- **DC Current:** 4 – 20mA DC; shunt resistor attached to input terminals (0.5W)
 - Input resistance:** 250Ω
 - **DC Voltage:** 1 – 5V DC
 - Input resistance:** 1MΩ minimum
- **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 N/minute (2.1 SCFM)
- Maximum air exhaust:** 60 N/minute (2.1 SCFM)

INSTALLATION

- Supply pressure:** 140 kPa (1.4 kgf/cm², 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).
- Air consumption:** 6 N/minute (0.21 SCFM)

