

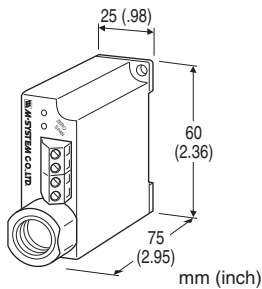
Super-mini Two-wire Signal Conditioners T-UNIT

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

P/I TRANSDUCER

Functions & Features

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



MODEL: TPV[1]

ORDERING INFORMATION

- Code number: TPV[1]
- Specify a code from below for [1].
(e.g. TPV/A2S/P7)

[1] 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

Pneumatic Connection

- blank: Rc 1/4"
- /P7: 1/4" NPT fitting

GENERAL SPECIFICATIONS

Construction: Stand-alone; terminal access at the front

Connection

Output: Euro type terminal
(applicable wire size: 0.25 to 1.5 mm², stripped length 7 mm)

Pneumatic: Rc 1/4" or 1/4" NPT female
(torque ≤ 12 N·m)

Grounding: M4 screw terminal (torque: 1.2 N·m)

Screw terminal

- **Grounding:** Nickel-plated brass

Housing material: Diecast aluminum

INPUT SPECIFICATIONS

Input

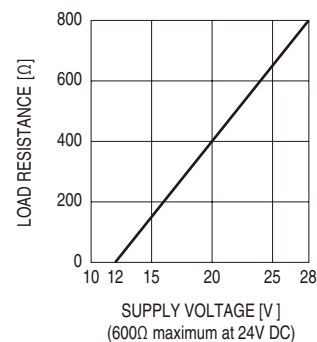
- 19.6 - 98.1 kPa, 0.2 - 1.0 kgf/cm²
- 20 - 100 kPa, 0.2 - 1.0 bar
- 20.7 - 103.4 kPa, 3 - 15 psig

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: -5 to +60°C (23 to 140°F)

Operating humidity: 30 to 90 %RH (non-condensing)

Mounting: Surface

Weight: 150 g (0.33 lb)

PERFORMANCE in percentage of span

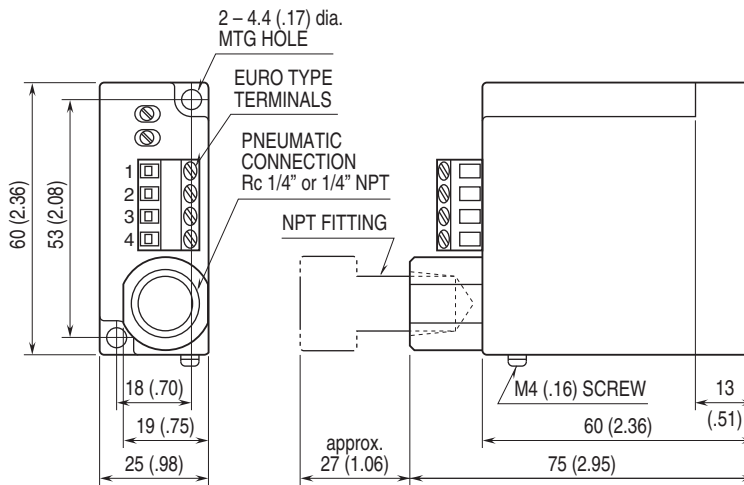
Accuracy: ±0.3 %

Temp. coefficient: ±0.03 %/°C (±0.02 %/°F)

Response time: ≤ 0.5 sec. (0 - 90 %)

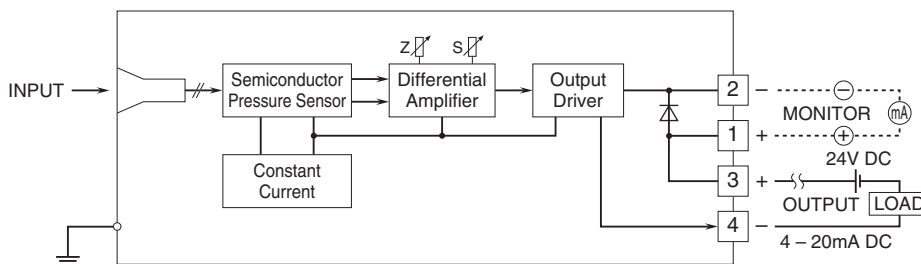
Permissible overrange: 196 kPa (2.0 kgf/cm², 1.96 bar, 28 psig)

EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm (inch)



•When mounting, no extra space is needed between units.

SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



Specifications are subject to change without notice.