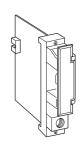
MODEL: 18PV

# Rack-mounted DCS Signal Conditioners 18-RACK

## **P/I TRANSDUCER**

#### **Functions & Features**

- Converting a standard pneumatic signal into two proportional DC outputs
- Second channel output available at the front terminals and at the Standard Rack connector



MODEL: 18PV-[1]66-R[2]

# ORDERING INFORMATION

• Code number: 18PV-[1]66-R[2] Specify a code from below for each of [1] and [2].

(e.g.18PV-266-R/A2S)

# [1] PNEUMATIC CONNECTION

2: Rc 1/4"

7: 1/4" NPT fitting

### **OUTPUT 1**

Voltage

**6**: 1 – 5 V DC (Load resistance 2000  $\Omega$  min.)

# **OUTPUT 2**

Voltage

**6**: 1 – 5 V DC (Load resistance 2000  $\Omega$  min.)

#### **POWER INPUT**

DC Power

**R**: 24 V DC

(Operational voltage range 24 V  $\pm 10$  %, ripple 10 %p-p max.)

# [2] OPTIONS

Input

**blank**: 0.2 - 1.0 kgf/cm<sup>2</sup> /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

# **GENERAL SPECIFICATIONS**

**Construction**: Rack-mounted; terminal access via screw terminals on the front and connector on the rear; terminal

cover provided
Connection

Pneumatic: Rc 1/4" or 1/4" NPT female

(torque ≤ 12 N·m)

Output 1: Connector

Output 2: M3.5 screw terminals (torque 0.8 N·m) and

connector

**Power input:** Supplied from connector **Screw terminal:** Nickel-plated steel **Isolation:** Output 1 to output 2 to power

Overrange output: Approx. -10 to +120 % at 1 - 5 V

**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/cm<sup>2</sup> 20 - 100 kPa, 0.2 - 1.0 bar 20.7 - 103.4 kPa, 3 - 15 psig

### **INSTALLATION**

Current consumption: Approx. 35 mA

Operating temperature: -5 to +55°C (23 to 131°F) Operating humidity: 30 to 90 %RH (non-condensing)

Mounting: Standard Rack 18BXx or 18KBXx

**Weight**: 250 g (0.55 lb)

## PERFORMANCE in percentage of span

Accuracy: ±0.2 %

Temp. coefficient:  $\pm 0.03$  %/°C ( $\pm 0.02$  %/°F) Response time:  $\leq 0.5$  sec. (0 - 90 %)

Permissible overrange: 196 kPa (2.0 kgf/cm<sup>2</sup>, 1.96 bar, 28

psig)

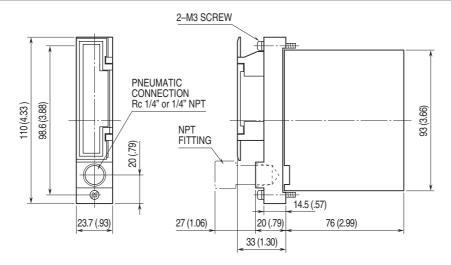
Line voltage effect:  $\pm 0.1$  % over voltage range Insulation resistance:  $\geq 100$  M $\Omega$  with 500 V DC Dielectric strength: 500 V AC @ 1 minute

(output 1 to output 2 to power)

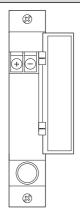
1500 V AC @ 1 minute (output or power to ground)

MODEL: 18PV

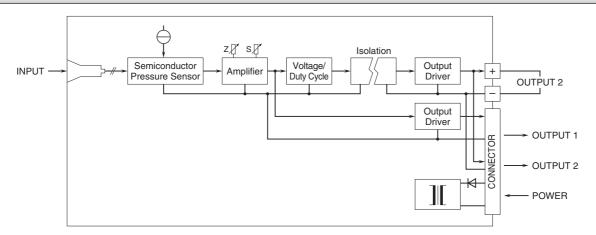
# **EXTERNAL DIMENSIONS** unit: mm [inch]



# **TERMINAL ASSIGNMENTS**



# **SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM**



 $\Lambda$ 

Specifications are subject to change without notice.