GENERAL
This plug-in type Pneumatic to Electrical Converter inputs 20~100 kPa, 0.2~1.0 kgf/cm² or 3~15 psi pneumatic pressure signal and converts it into various DC current or voltage signal.

• Compact type, high quality by using semiconductor pressure sensor.
• No positional error.

MODEL AND SUFFIX CODES
PF1-□□-1*B

MODEL

INPUT SIGNAL
1 : 0.2~1.0 kgf/cm²
2 : 3~15 psi
3 : 20~100 kPa

OUTPUT SIGNAL
A : 4~20 mA DC
B : 2~10 mA DC
C : 1~5 mA DC
D : 0~20 mA DC
E : 0~16 mA DC
F : 0~10 mA DC
G : 0~1 mA DC
Z : Current Signal
other than
A=G
(within 24 mA)
0 : Voltage Signal
other than

POWER SUPPLY
24 V DC ± 10%

ORDERING INFORMATION
• Model Code: (Example) PF1-1A-1*B
• Custom order when install transducers in direct connecting DSC type nest of P-Rack (Model X017 or X018).
Designate output signal Code 6 (1~5 V DC) and put /Z at the end of Model Code.
(Example) PF1-□6-1*B/Z

INPUT AND OUTPUT
Input signal: 20~100 kPa, 0.2~1.0 kgf/cm² or 3~15 psi Permissible input pressure:
Less than 200 kPa, 2.0 kgf/cm² or 28 psi Output signal: DC current or voltage signal Permissible load resistance:

<table>
<thead>
<tr>
<th>Output Range</th>
<th>Permissible load resistance</th>
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</tr>
</thead>
<tbody>
<tr>
<td>4~20 mA DC</td>
<td>below 750 Ω</td>
<td>0~10 mV DC</td>
<td>over 250 kΩ</td>
</tr>
<tr>
<td>2~10 mA DC</td>
<td>below 1500 Ω</td>
<td>0~100 mV DC</td>
<td>over 250 kΩ</td>
</tr>
<tr>
<td>1~5 mA DC</td>
<td>below 3000 Ω</td>
<td>0~1 V DC</td>
<td>over 2 kΩ</td>
</tr>
<tr>
<td>0~20 mA DC</td>
<td>below 750 Ω</td>
<td>0~10 V DC</td>
<td>over 10 kΩ</td>
</tr>
<tr>
<td>0~16 mA DC</td>
<td>below 900 Ω</td>
<td>0~5 V DC</td>
<td>over 2 kΩ</td>
</tr>
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<td>below 1500 Ω</td>
<td>1~5 V DC</td>
<td>over 2 kΩ</td>
</tr>
<tr>
<td>0~1 mA DC</td>
<td>below 15 kΩ</td>
<td>-10~+10 V DC</td>
<td>over 10 kΩ</td>
</tr>
</tbody>
</table>

Zero point adjust range: ± 5% of span
Span adjust range: ± 5% of span

STANDARD PERFORMANCE
Accuracy rating: ± 0.2% of span
± 0.5% of span when multi-close mounting.
Insulation resistance: Over 100 MΩ (at 500 V DC) between output~power supply
Voltage withstand: 500 V AC/1 minute between output~power supply
Temperature range: 0~50°C
Humidity range: 5~90% RH (no condensation)
Power voltage: 24 V DC ± 10%
Effect of power voltage fluctuation:
Less than ± 0.1% of span for 24 V DC ± 10% fluctuation
Effect of ambient temperature change:
Less than ± 0.4% of span for 10°C change
Current dissipation: 24 V DC 50 mA (1~5 V)
80 mA (4~20 mA)
■ MOUNTING AND DIMENSION
Materials: Case ABC plastic
Mounting method: Wall mounting
Signal connection:
  Electric Signal: Front terminal board (M4 screw) for both output signal and power supply
  Pneumatic signal: Pneumatic connection hole Rc1/4 (PT 1/4 female screw) at lower face of terminal board
External dimension: 124 × 24 × 125 mm (H × W × D) including terminal
Weight: About 270 g

■ ACCESSORIES
Tag number label: 1

■ TERMINAL ARRANGEMENT

■ RELATED EQUIPMENT
• Use X019 or X020 Mounting Board for multi-close mounting
• Use X017 or X018 P-RACK (connector connecting type nest) to connect to DCS.

■ BLOCK DIAGRAM

■ EXTERNAL DIMENSIONS
Unit: mm
■ MOUNTING DIMENSIONS

Use for single unit

PF1
M4 Screw

27
43

25.5