

PLX SERIES



Both oil pressure and air pressure are OK

ORDER GUIDE

Appearance	Applicable fluid	Rated pressure range	Model No.	Output
<p>1.138 in 28.9mm 40mm 1.575 in R(PT)1/4 male thread</p>	Gas or liquid which does not corrode stainless steel (SUS302 and SUS304)	0~100kPa	PLX-D1L	DC 2-wire analog current output •Output current: 4 to 20 mA
		0~1MPa	PLX-1L	
		0~2MPa	PLX-2L	
		0~10MPa	PLX-10L	
		0~50MPa	PLX-50L	

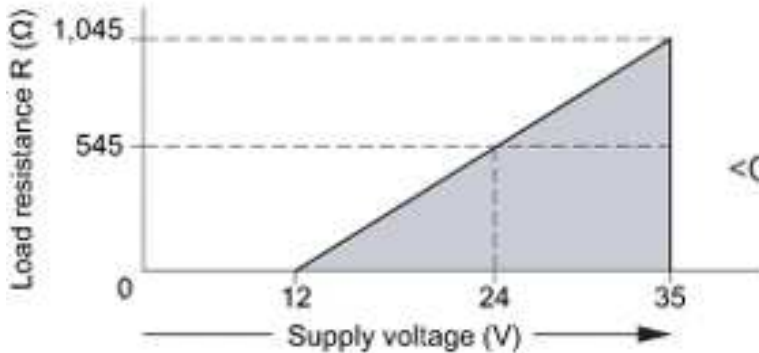
SPECIFICATIONS

Type	100 kPa	1 MPa	2 MPa	10 MPa	50 MPa
Model No.	PLX-D1L	PLX-1L	PLX-2L	PLX-10L	PLX-50L
Type of pressure	Gauge pressure				
Rated / set pressure range	0 to 100 kPa	0 to 1 MPa	0 to 2 MPa	0 to 10 MPa	0 to 50 MPa
Pressure withstandability	200 kPa	2 MPa	4 MPa	15 MPa	75 MPa
Applicable fluid	Gas or liquid which does not corrode stainless steel (SUS302 and SUS304)				
Supply voltage	12 to 35 V DC (including ripple)				
Current consumption	4 to 20 mA (analog output current)				
Output	DC 2-wire analog current output <ul style="list-style-type: none"> • Output current: 4 to 20 mA (at rated pressure range) • Zero-point: within 4 mA \pm 0.4 mA (at ambient temperature of +25 °C +77 °F) • Span: within 16 mA \pm 0.32 mA (at ambient temperature of +25 °C +77 °F) • Precision: within \pm1 % F.S. (including linearity and hysteresis) • Load resistance: refer to Note 2 				
Response frequency	1 kHz or more				
Protection	IP40 (IEC)	IP66 (IEC)			
Ambient temperature	-15 to +100 °C +5 to +212 °F, Storage: -15 to +100 °C +5 to +212 °F				
Temperature characteristics	Zero point: within \pm 1 % F.S. (0 to +50 °C +32 to +122 °F), within \pm 3 % F.S. (-15 to +70 °C +5 to +158 °F), within \pm 5 % F.S. (-15 to +100 °C +5 to +212 °F) Span: within \pm 1 % F.S. (0 to +50 °C +32 to +122 °F), within \pm 3 % F.S. (-15 to +70 °C +5 to +158 °F), within \pm 5 % F.S. (-15 to +100 °C +5 to +212 °F)				
Pressure port	R (PT) 1/4 male thread				
Material	Enclosure: Stainless steel (SUS310) [PLX-10L and PLX-50L: Stainless steel (SUS304)], Pressure port: Stainless steel (SUS302), Diaphragm: Stainless steel (SUS304)				
Weight	Net weight: 200 g approx.				
Dimensions	\varnothing 40 x 53.6 mm \varnothing 1.575 x 2.110 in				
Accessory	Pressure port protection cap: 1 No.				

Notes:

1) Where measurement conditions have not been specified precisely, the conditions used were an ambient temperature of +20 °C +68 °F .

2) Set the load resistance and supply voltage so that the voltage produced between the +V and output terminals is maintained within 12 to 35 V. For this, set the load resistance within the range shown in the graph below. If the load resistance is set outside the indicated range, the voltage produced between the +V and output terminals will not meet the required rating due to voltage drop, and proper operation will not be obtainable.



<Calculation> $\frac{1,045}{23} \times \text{Supply voltage} - 54$
 In case the power voltage is
 $R \leq \frac{1,045}{23} \times 24 - 545 = 545$

OPTIONS

Designation	Model No.	Applicable sensor	Description
Digital pressure controller (Note)	PAD-D1	PLX-D1L	Setting can be performed easily using the actual products. In addition, accurate measurement is possible, even if there are reference pressure fluctuations, since the controller has an auto-reference function. <ul style="list-style-type: none"> • Supply voltage: 12 to 24 V DC \pm 10 % • Range of input current: 4 to 20 mA • Output: NPN open-collector transistor (3 outputs: HI, GO, LO) • Auto reference function is incorporated • Operation modes: Hysteresis mode Window comparator mode
	PAD-1	PLX-1L	
	PAD-2	PLX-2L	
	PAD-10	PLX-10L	
	PAD-50	PLX-50L	

Note:

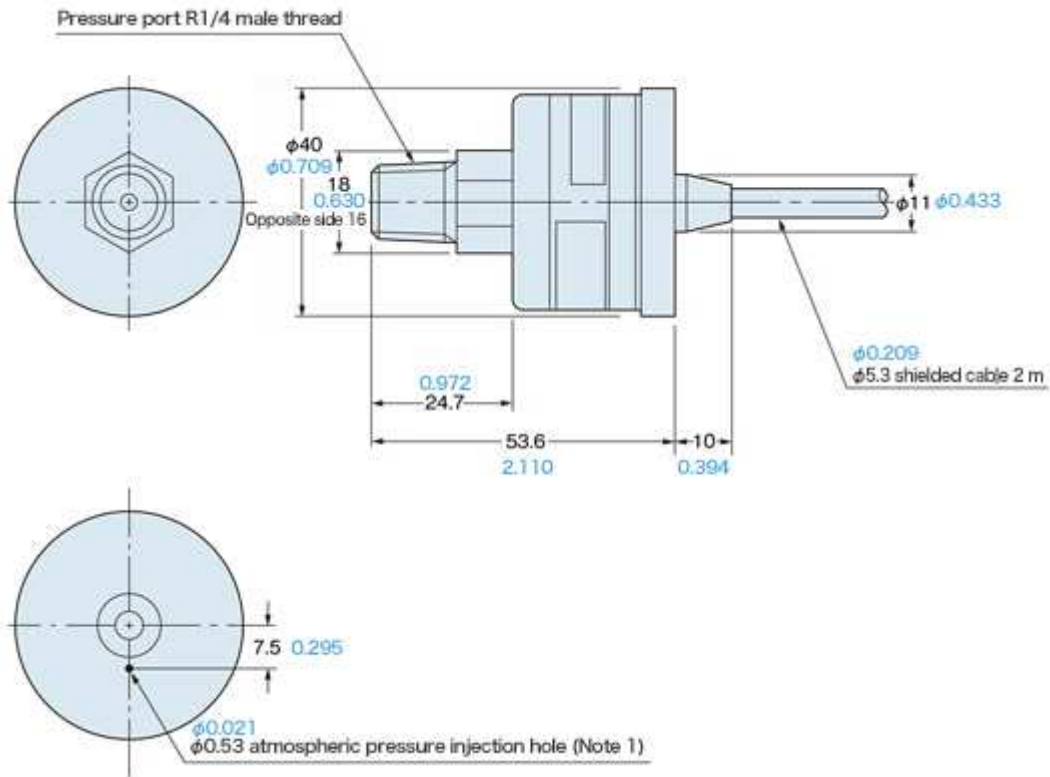
Refer to the digital pressure controller [PAD series](#) page for details.

PAD-□



DIMENSIONS (Unit: mm in)

Sensor



Note:

1) Only PLX-D1L has an atmospheric pressure injection hole