Pewatron PHPSU-4502 vs SCX Series

1. Dimensions

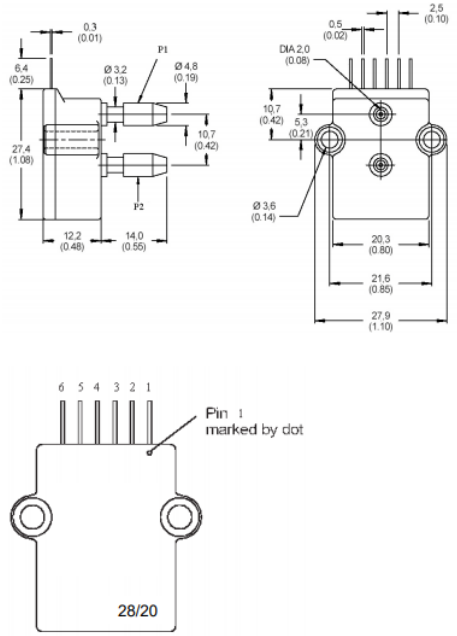

Figure 1: PHPSU-4502

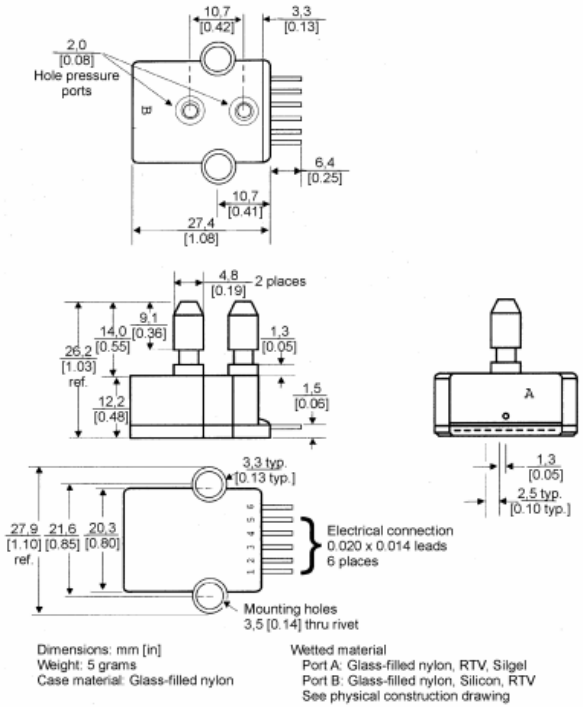

Figure 2: SCX Series

The dimensions are the same on both sensors.

2. Pinout

Pin number	Output
1	Temp out+
2	Vs
3	+OUT
4	GND
5	-OUT
6	Temp out-

Note: Output polarity is defined for positive pressure on port **P2**

Figure 3: PHPSU-4502 pinout

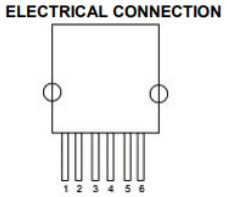

Figure 4: SCX Series pinout

The pinout of both Sensors is the same. There are no layout changes necessary to use the PHPSU-4502, it is one to one compatible.

3. Performance characteristics

Parameter	Typ. (SCX)	Typ. (PHPSU)	Max. (SCX)	Max. (PHPSU)	Unit
Input voltage	20	12-20			V
Thermal error of span (0 to 70°C)	±0,2	±0,2	±1	±1	%FS
Thermal error of offset (0 to 70°C)	±0,1	±0,2	±0,5	±0,5	mV
Combined linearity and hysteresis	±0,1	±0,2	±0,5	±0,5	%FS
Input impedance	4	25			kΩ
Output impedance	4	4			kΩ
Repeatability	±0.2	±0,05	±0.5		%FSO
Long-term stability of offset and span	±0.1	±0, 1			mV

The characteristics are almost the same and on some points like the repeatability or the long-term stability the PHPSU-4502 easily outperforms the SCX Series.

4. Cross-Reference list

The fallowing list shows which PHPSU-4502 is compatible with which SCX model.

SCX	PHPSU-4502 equivalent	Pressure Range
SCXL004DN	PHPSU4502-004H-D	10mbar
-	PHPSU4502-0P3P-D	20mbar
-	PHPSU4502-0P8P-D	50mbar
SCX01DN or DNC	PHPSU4502-001P-D	70mbar
SCX05DN or DNC	PHPSU4502-005P-D	350mbar
SCX15DN or DNC	PHPSU4502-015P-D	1bar
SCX30DN or DNC	PHPSU4502-030P-D	2bar
SCX100DN or DNC	PHPSU4502-100P-D	7bar
SCX150DN or DNC	PHPSU4502-150P-D	10bar
SCX15AN or ANC	PHPSU4502-015P-A	1bar
SCX30AN or ANC	PHPSU4502-030P-A	2bar
SCX100AN or ANC	PHPSU4502-100P-A	7bar
SCX150AN or ANC	PHPSU4502-150P-A	10bar

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