

PRESSURE TRANSMITTERS/TRANSDUCERS



KEY FEATURES

- + Standard output signal 0.5 ... 4.5 V, 4-20mA or 0-10V
- + Silicon based diaphragms – **high sensitivity**
- + Automotive Heavy-duty **ISO15170 sealed circular connector**, twist lock
- + **Robust and compact** design
- + **Non-linearity**: < 1 % FS
- + **Over-pressure** safety: x 5
- + Material: **316L**
- + **Vacuum** resistant
- + **Universal Supply Voltage**: 8 .. 30 VDC



SPECIFICATIONS

POWER

Supply Voltage	9-30 V DC
Voltage output Signal	0.5-4.5 V standard 0-10 V optional
Current output Signal	4 .. 20 mA optional
Load in ohm	<(U _{batt} -9V)/0.02A

ELECTRICAL CONNECTION

Pin assignment 0.5 .. 4.5 V signal, type PTxx-U4-	1: U batt + 2: GND
BWK	3: Signal out 0.5 .. 4.5V 4: N/C
Pin assignment 4..20 mA signal type, PTxx-I2-BWK	1: U batt + 2: Signal out 4..20mA 3: N/C, 4: N/C

ENVIROMENT

Temperature range	operating from -20°C to +70°C (temp. compensation range) storage from -45°C to +85°C
Ingress protection (IEC60529)	IP67 (mated position)
Mating connector	ISO15170 2.5mm system, Key1, Twist Lock, angled, for corrugated tube NW 8.5 with 2 or 3 conatcts and one or two seal plug
Current sensors P/N	CKIT ISO2-9NW8.5
Voltage sensors P/N	CKIT ISO3-9NW8.5
Wire cross-section	0.5 .. 1 mm ²
Wire insulation diameter	1.2 mm .. 2.1 mm

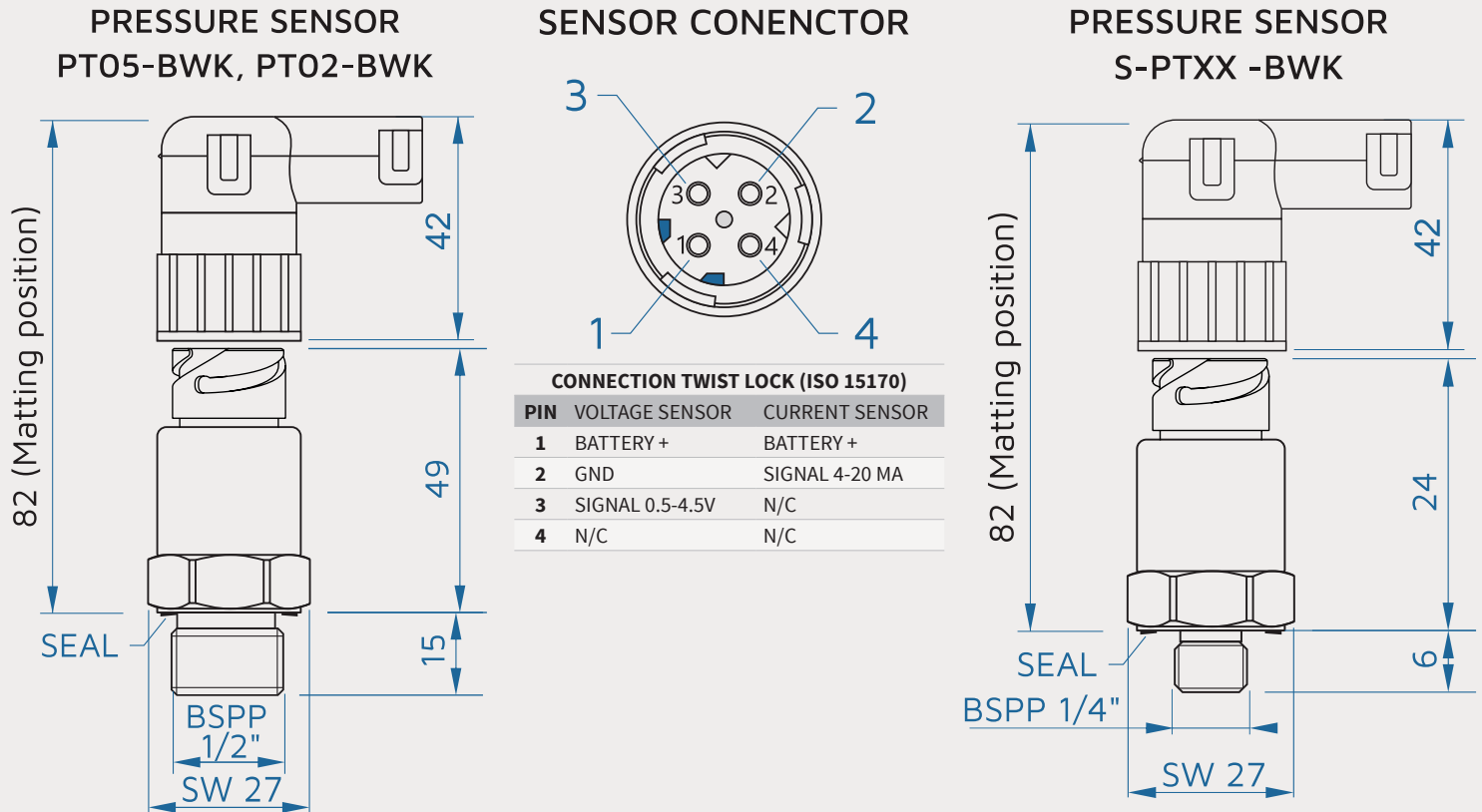
The **PTxx** series pressure transmitters have been designed for a wide range of industrial applications. They are capable of measuring pressure in water, gases, or vapors in systems such as liquid level monitoring, pump control, and machine building.

The gauge sensors use silicon-based sensing diaphragms with high elasticity, combined with semiconductor strain gauges implanted into the silicon substrate. This configuration provides excellent sensitivity, high overpressure resistance, and precise measurement characteristics with low non-linearity, minimal hysteresis, and high repeatability.

The relative pressure models rated for 25 bar and 60 bar employ ceramic capacitive measuring cells, ensuring robust performance in demanding environments.

Thanks to their technical specifications, reliability, and cost-effectiveness, these pressure transmitters are especially well suited for OEM applications.

DIMENSIONS AND CONNECTIONS



GAUGE SENSOR PRESSURE RANGE

Measuring range

- PT02-xx-BWK 0 .. 200 mBar
- PT05-xx-BWK 0 .. 500 mBar

Overpressure and burst limit

- 200 mbar transducers 1000 mBar
- 500 mbar transducers 2500 mBar

Vacuum tightness

Yes

ACCURACY

Accuracy < 0.5 % FS

CONNECTION

Process connection G 1/2", BSPP

RELATIVE SENSOR PRESSURE RANGE

Measuring range

- PT24-xx-BWK -1 .. 24 bar
- PT25-xx-BWK 0 .. 25 bar
- PT60-xx-BWK 0 .. 60 bar

Overpressure and burst limit

4 bar, 25 bar and 60 bar sensors 100 bar

Vacuum tightness

Yes

ACCURACY

Accuracy < 1 % FS

CONNECTION

Process connection G 1/4", BSPP

PRODUCT CODE

SET of pressure sensor and Mating conector

Ordering code example:

S	-	P	T	0	5	-	U	4	-	B	W	K
SET		SENSOR TYPE		PRESSURE RANGE		OUTPUT SIGNAL		CONNECTOR AND IDENTIFIER				
S: SET WITH MATING CONECTOR				02: 0-200 mBAR 05: 0-500 mBAR 24: -1-24 BAR 25: 0-25 BAR 60: 0-60 BAR, ETC		U4: 0.5-4.5V U1: 0-10V I2: 4-20MA		BWK: BAYONET-TWIST LOCK				