

PSC Multi-channel pressure scanner



- 4 to 24 pressure channels
- Pressure ranges from 125Pa to 1MPa (10bar)
- TARE and PURGE options
- Available interfaces: USB, LAN, CAN, RS232
- Configurable via USB
- Incl. software and drivers for LabVIEW

General description

The pressure scanners from the PSC series are suitable for the simultaneous acquisition of multiple pressure signals. The temperature-compensated transducers offer high accuracy and minimal offset drift. A high overload safety protects the sensors from being damaged by pressure beyond the measurement range.

The available measuring ranges range from 125Pa to 1MPa. The sensors are uni-, bi-directional or absolute, depending on the measuring range.

Depending on the variant, the devices in the PSC series are equipped with up to 24 pressure measurement channels. Each pressure channel can have its own reference pressure port or the reference ports can be combined and accessed through one single connector.

All variants have a USB interface as standard, which is used for configuration and data transfer. LAN, CAN bus and RS232 interfaces are also available as options.

The pressure scanners are also available as rack modules. These modules can be operated independently via USB or in a 19" rack. The data of all built-in modules can be read out through the rack's Ethernet (LAN) interface.

A program for configuration, reading out, displaying and saving data is supplied free of charge. It is able to operate multiple PSC devices simultaneously. Examples in LabVIEW® or Visual Basic can be supplied to get your own application development started.

Please contact us to talk about a customized version for your application.

Technical specifications

Number of pressure channels					
PSCx	4 / 5 / 8 / 16 / 24				
Measuring ranges					
All versions	125 Pa ... 400 kPa (1.25mbar ... 4bar) unidirectional and bidirectional 0.1 and 1.0 MPa (1 and 10 bar) relative or absolute				
accuracy and sample rates					
Nonlinearity & Hysteresis	Max. $\pm 0.1\%$ FSS (typical $\pm 0.05\%$)				
sampling rate per channel	1 ... 100 Hz (PSC4, PSC5) 1 ... 50 Hz (PSC8, PSC16, PSC24)				
power supply					
PSCx USB	Via USB				
PSCx CAN / LAN / RS232	7 ... 24VDC, 50-100mA				
PSC8-MV/Purge	7 ... 24 VDC, 1 A MV = Variant with internal solenoid valves for TARA function Purge = Variant with solenoid valves for flushing the lines				
Environmental conditions					
temperature	+5° ... +50°C				
humidity	0 ... 95%, non condensing				
operating medium	Air and non-corrosive gases				
Dimensions housing					
PSC4, PSC5	60 x 30 x 80 mm ³ (W x H x D)				
PSC8, PSC16, PSC24	130 x 55 x 170 mm ³ (W x H x D)				
pressure connections					
ref.	DI [mm]	DA [mm]	hose material*	Max pressure	Suitable for
T16	1.3 ... 1.6		Silicone, PE, PVC	0.1MPa	All versions
T20	1.5 ... 2.0		Silicone	15kPa	All versions
T25	2.0 ... 2.5		Silicone	15kPa	All with a common reference
T35	2.5 ... 3.0		Silicone	15kPa	PSC8, PSC16
P20		2.0	PE, PU, PA	1MPa	PSC8, PSC16
P30		3.0	PE, PU, PA	1MPa	PSC8, PSC16

DI Inner diameter
DA Outer diameter
* recommendation

