

Technical Data

Number of pressure channels	
PSC4	4 uni- or bidirectional
PSC5	5 uni- or bidirectional
PSC8	8 uni- or bidirectional
PSC16	16 uni- or bidirectional
PSC24	24 uni- or bidirectional
Measuring range	
All versions	125 Pa – 15 kPa (1,25 – 150 mbar) uni- and bidirectional (Other sensors available on request)
Accuracy and sample rates	
Non-linearity & hysteresis	max ±0.25% FSS (typical ±0.1 %)
Sample rate per channel	1-100 Hz (PSC4, PSC5) 1-50 Hz (PSC8, PSC16, PSC24)
Power supply	
PSC4-CAN	CAN 7-24 V, 50 mA
PSC5-CAN	CAN 7-24 V, 50 mA
PSC8-CAN/-LAN PSC8-USB PSC8-MV	7-24 V, 1 A via USB 7-24 V, 1 A (MV = version with built in magnetic valves)
PSC16-CAN/-LAN PSC16-USB	7-24 V, 1 A über USB
PSC24-CAN/-LAN PSC24-USB	7-24 V, 1 A via USB
Environmental conditions	
Temperatur	5° C...50° C
Luftfeuchtigkeit	0...95%, non-condensing
Betriebsmedium	Luft und nicht-korrosive Gase
Dimensions	
Housing PSC4, PSC5	60 x 30 x 80 mm ³ (w x h x d)
Housing PSC8, PSC16, PSC24	130 x 55 x 170 mm ³ (w x h x d)
Pressure connections	Hose barb d = 2.0 mm
Recommended tubes	Soft-PE and silicone tubes 1.5 x 3.5 mm

Driver and software
Virtual COM-Port-Driver
Configuration software
LabVIEW-example program as source code
Supported operating systems
Windows XP, 7, 8, 10, Linux

Serial Interface

The virtual COM port can be operated at any baud rate. We recommend 19200, 8 data bits, no parity, 1 stop bit. DTR (Data Terminal Ready) must be asserted.

Command	Function	Answer
CAL a x	Set scaling factor for sensor a to value x	#Scaler=... Offset=...
CAL? A	Read scaling factors for sensor a	#Scaler=... Offset=...
EE_LOAD	Load calibration data from EEPROM	#EEPROM:loaded
EE_SAVE	Save calibration data to EEPROM	#EEPROM:saved
*IDN?	Read device ID	#PSC24-LAN 2.4.0 #SN35000
RATE x	Define sample rate range x = 20 ...5000 [ms] standard: 1000 [ms] → 1 [Hz]	#Rate=x ms #Error: Rate-Range
RATE 0	Activate request and trigger mode actual values are read only after manual command "?" is sent	#Request-Mode active
?	Read actual value (request-mode only)	0.00 0.00 0.00 0.00 ...
*RST	Load default settings	#RESET
SCAN_A x SCAN_B x SCAN_C x	Defines a scanlist (channel selection) binary, each bit represents one channel	
TARA	Zero adjustment for all sensors	#TARA
FILTER x	Activate exponential filter x = 0: deactivated; x > 0: filter range in ms	#FILTER=x

Every command is terminated by a line break (CR, LF or CR+LF). The sensor enumeration of all devices starts at 1.

Additional commands for PSC-CAN Versions:

Command	Function	Answer
CAN_ID x	Set CAN-ID	#OK
CAN_IT x	Set interface x = 0: normal (11 bit, CAN 2.0A) x = 1 extended 23 bit (23 bit, CAN 2.0B)	#OK
CAN?	Request CAN configuration	#ID:0x[...]_Speed:[baud]_IDT: [0,1]
CAN_Speed x	Set CAN bus rate x = 0: 125 kBaud x = 1: 250 kBaud x = 2: 500 kBaud x = 3: 1 MBaud	#OK