Product Key
CANopen Transmitter

The correct order code must be taken from the corresponding data sheet.

PDRJ A006.14C.S340PY

Measuring Method

A = Absolute
R = Gage

Output Signal

J = CANopen 1000 measurements/sec

Housing Type

A006 = ø 25 x 82 mm G 1/4" female thread, key width 27
A008 = ø 25 x 100 mm G 1/4" female thread, key width 27
E001 = ø 19 x 71 mm G 1/4" manometer, key width 19
E002 = ø 19 x 69 mm G 1/4" integrated seal, key width 19
E101 = ø 19 x 71 mm M12 x 1,5 manometer, key width19
E102 = ø 19 x 69 mm M12 x 1,5 integrated seal, key width 19
E107 = ø 19 x 83 mm M14 x 1,5 60° cone, manometer, key width 19

Electrical Connection

14C = Connector 5 pin M 12 x 1
S40 = Connector 4 pin MIL C26482 (8-4)
S50 = Connector 5 pin DIN 45322

Precision Class

A = 0,1 % Characteristic curve deviation
B = 0,3 % Characteristic curve deviation
S = 0,3 % Total error
T = 1 % Total error

Pressure Range

160 0...0,6 bar
161 0...-0,6 bar
211 0 ...-1 bar
210 0 ...1 bar
216 0 ...1,6 bar
225 0 ...2,5 bar
240 0 ...4 bar
260 0 ...6 bar
310 0 ...10 bar
316 0 ...16 bar
325 0 ...25 bar
340 0 ...40 bar
360 0 ...60 bar
410 0 ...100 bar
416 0 ...160 bar
425 0 ...250 bar
440 0 ...400 bar
460 0 ...600 bar
510 0 ...1000 bar
516 0 ...1600 bar

Higher pressure ranges on request

Options

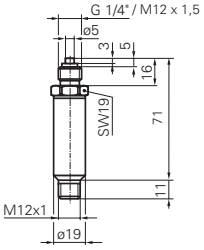
PY = Pressure connection with Parylene coating
DE = Pressure connection with integrated dumping element

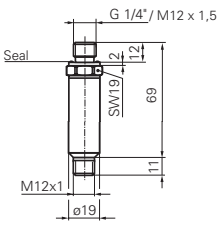
CANopen Class B

Version	CANopen G 1/4" (E001) or M12 x 1,5 (E101) Manometer	CANopen G 1/4" (E002) or M12 x 1,5 (E102) integrated seal
Measuring method	**gage**	**gage**
		
Pressure spectrum	**0...40 up to 0...1000 bar**	**0...40 up to 0...600 bar**
Order code	**PDRJ xxxx.14C.Bxxx** E001/E101 340...510	**PDRJ xxxx.14C.Bxxx xx** E002/E102 340...460 DE
Housing type		
Pressure range*		
Option*		
Technical data		
Protocol	DSP-301 V4.1 (CANopen), DSP-305 V2.0 (LSS)	DSP-301 V4.1 (CANopen), DSP-305 V2.0 (LSS)
Device profile	DS-404 V1.2 (sensor)	DS-404 V1.2 (sensor)
CAN-Idendification	CAN base frame (2.0A / 11 Bit)	CAN base frame (2.0A / 11 Bit)
Baud rate	10,20,50,125,250,500,800,or 1000 kBaud	10,20,50,125,250,500,800,oder 1000 kBaud
Type of interchange data	16 Bit, 2-complement, fix point	16 Bit, 2-complement, fix point
Node-ID and Baud rate adjustments	LSS and proprietary (SDO)	LSS and proprietary (SDO)
Error control	heartbeat	heartbeat
PDO's	2 TX, dynamic mapping	2 TX, dynamic mapping
PDO-Modes	event/time tiggered, sync	event/time tiggered, sync
Process value 1	pressure	pressure
Resolution	min. 0,025% FSR	min. 0,025% FSR
Sensing rate	1 ms (1 kHz)	1 ms (1 kHz)
Signal conversion	13 Bit	13 Bit
Characteristic curve deviation	< ± 0,3% FSR	< ± 0,3% FSR
Hysteresis	≤ 0,05% FS (≤ 0,1%@1000 bar)	≤ 0,05% FSR
TC Output range	< ± 0,02% FSR/K	< ± 0,02% FSR/K
TC Zero signal	< ± 0,03% FS/K (< ±0,06%@1000 bar)	< ± 0,03% FSR/K
Process value 2	not implemented	not implemented
Overload limit	> 2 x nominal pressure (max. 1250 bar)	> 2 x nominal pressure
Burst pressure	> 8 x nominal pressure (max. 4000 bar)	> 8 x nominal pressure (max. 4000 bar)
Material in contact with medium	steel stainless 1.4301 / 1.4542	steel stainless 1.4301 / 1.4542 / NBR
Housing material	steel stainless 1.4301	steel stainless 1.4301
Voltage supply range	12 - 33 VDC	12 - 33 VDC
Current draw	approx. 15 mA@ 24 VDC, approx. 25 mA@ 12 VDC	approx. 15 mA@ 24 VDC, approx. 25 mA@ 12 VDC
Nominal temperature range	-25°...+85°	-25°...+85°
max. protection class (connector mounted)	IP 67	IP 67

General characterisitics

Rise time (10 - 90%)	< 1 ms
Insulation resistance at 25 °C and 250 VDC	> 1 GΩ
Long-term stability at 25 °C	approx. 0,1%/year
Repeatability	<0,05% FS <0,1%@1000bar <0,07%@1600bar
Vibration DIN EN 60068-2-6	10 - 2000 Hz
Shock DIN EN 60068-2-27	50 g / 11 ms





* see product key

CANopen - Class B

CANopen M14 x 1,5 (E107) 60° Cone
gage



0...1600 bar

PDRJ E107.14C.B516

DSP-301 V4.1 (CANopen), DSP-305 V2.0 (LSS)
DS-404 V1.2 (sensor)
CAN base frame (2.0A / 11 Bit)
10,20,50,125,250,500,800,oder 1000 kBaud
16 Bit, 2-complement, fix point
LSS and proprietary (SDO)
heartbeat
2 TX, dynamic mapping
event/time tiggered, sync

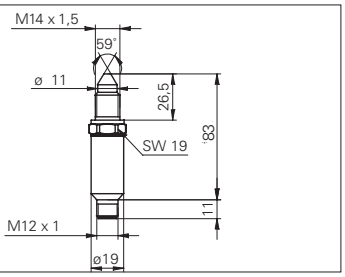
pressure
min. 0,025% FSR
1 ms (1 kHz)
13 Bit
< ± 0,3% FSR
≤ 0,07% FSR
< ± 0,02% FSR/K
< ± 0,04% FSR/K

not implemented

max. 2000 bar
max. 4000 bar
steel stainless 1.4542
steel stainless 1.4301

12 - 33 VDC
approx. 15 mA@ 24 VDC, approx. 25 mA@ 12 VDC

-25°...+85°
IP 67



Electrical connections

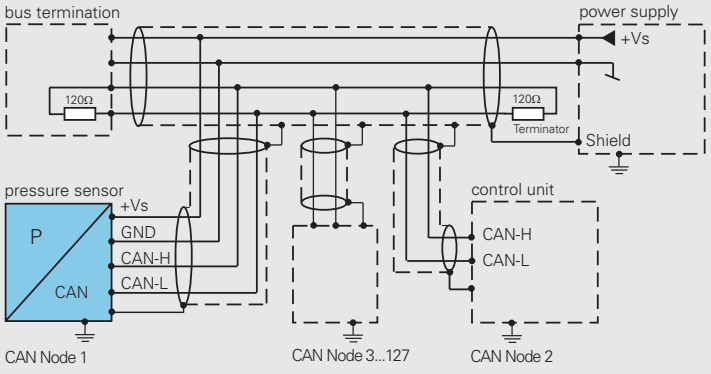
14C



Pin	
1	n.c.
2	+Vs
3	GND
4	CANH
5	CANL
housing	⏚

Wiring

J



Requirements with respect to power supply unit

The voltage range stated must be complied with at all times.

Within this range, a residual ripple of 10% of the mean direct voltage is tolerated.

Instruction manual

The instruction manual for more information you will find on www.baumersensopress.com