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

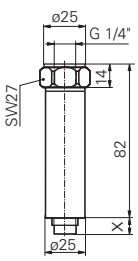
CANopen Class T

Version	CANopen G 1/4" female thread	CANopen G 1/4" female thread
Measuring method	**gage**	**gage or absolute**
		
Pressure spectrum	**0...4 up to 0...1000 bar**	**0...-1 up to 0...1000 bar**
Order code	**PDRJ A006.xxx.Txxxxx**	**PDxJ A008.xxx.Txxxxx**
Measuring method		R/A
Electrical method	14C/S40/S50	14C/S40/S50
Pressure range* gage	240...510	160...225 160...510
Pressure range* absolute		
Option* (from 6 bar)	PY	PY
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, or 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	0,025...0,004% FSR (depend on pressure range)	0,025...0,004% FSR (depend on pressure range)
Sensing rate	1 ms (1 kHz)	1 ms (1 kHz)
Signal conversion	16 Bit	16 Bit
Total error	≤ 1% FSR	≤ 1% FSR
Process value 2	temperature	temperature
Measuring range	-25...85C	-25...85C
Resolution	0,1% FSR	0,1% FSR
Sensing rate	1 s (1Hz)	1 s (1Hz)
Signal conversion	10 Bit	10 Bit
Accuracy	typ. 1% FSR	typ. 1% FSR
Overload limit	> 2 x nominal pressure (max. 1250 bar)	> 2 x nominal pressure (max. 1250 bar)
Burst pressure	> 4 x nominal pressure	> 4 x nominal pressure
Material in contact with medium	steel stainless 1.4542	steel stainless 1.4542
Housing material	steel stainless 1.4301 / 1.4542	steel stainless 1.4301 / 1.45422
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

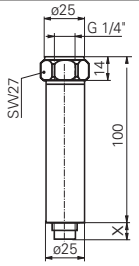
General characterisitics

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
Vibration DIN EN 60068-2-6	10 - 500 Hz
Shock DIN EN 60068-2-27	50 g / 11 ms

* see product key



x electrical connections see next page

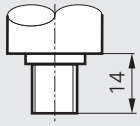


x electrical connections see next page

CANopen - Class T

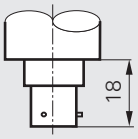
Electrical connection dimensions

14C



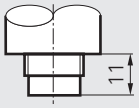
5 pin 12 mm
connector

S40



4 pin connector
MIL C26482 (8-4)

S50



5 pin connector
DIN 45322

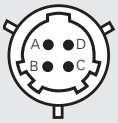
Electrical connections

14C



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

S40



Pin	
A	CANH
B	+Vs
C	CANL
D	GND
housing	⏚

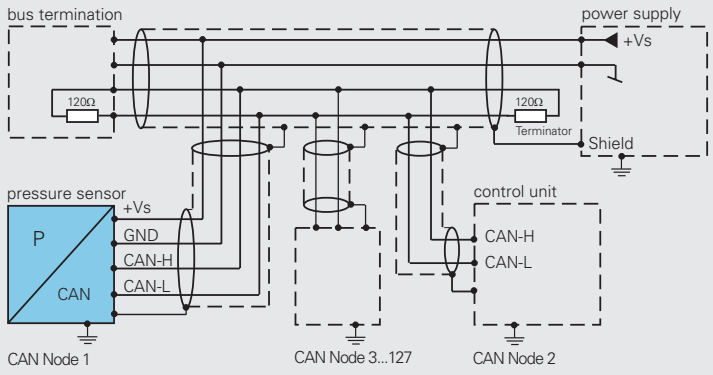
S50



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