



technische import

SUCO Productinformatie

PR3800



SUCO Robert Scheuffele GmbH & Co. KG

www.bafa.nl

Protran® PR3800

SERIES PRESSURE TRANSMITTER
WITH BARRIER SEAL



DESCRIPTION

The PR3800 series offer a range pressure transmitters with integrated or remote barrier seals for applications where direct media contact must be prevented.

In these installations the process media may corrode the sensing diaphragm or clog the narrow pressure inlet on a standard transmitter. For hygienic application the seal provides a sanitary grade pressure fitting. Seals are available in a variety of forms and materials for a wide range of applications and can be directly attached to the proposed connection or remotely via stainless steel capillary. Please contact our sales department for information on our full range of process connections.

An optional ATEX certified version of this product is available approved for explosion protection for flammable gases (zone 0), dusts (zone 20) and mining areas (group I MI).

- THICK FILM SENSOR TECHNOLOGY
- PRESSURE RANGES
0-200mbar TO 0-1000bar
- 4-20mA TWO WIRE OUTPUT
- ACCURACY 0.30% NLHR
- OPTIONAL ATEX APPROVED
VERSION (4-20mA ONLY)
- REMOTE CAPILLARY SENSING
MODELS
- LARGE FLUSH FACE
STAINLESS STEEL MEDIA
DIAPHRAGM
- HYGIENIC MODELS FOR FOOD
INDUSTRY



PRESSURE RANGES

0 - 1bar vac through to 0 - 1000bar , see table below for list of all standard pressure ranges.

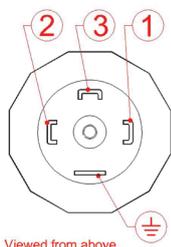
Range (bar)	Order Code	Range (bar)	Order Code
0-1 Vac	V001	0-25	0025
0-0.2	00.2	0-40	0040
0-0.5	00.5	0-60	0060
0-1	0001	0-100	0100
0-2.5	02.5	0-160	0160
0-4	0004	0-250	0250
0-6	0006	0-400	0400
0-10	0010	0-600	0600
0-16	0016	0-1000	1000

DIMENSIONS (in mm)



ELECTRICAL CONNECTION

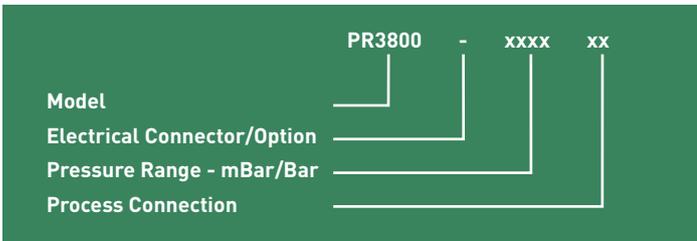
Pin No.	2 wire
1	+supply
2	4-20mA signal
3	not fitted to case
⊥	to case



ELECTRICAL CONNECTION

Pin No.	4 wire	3 wire
1	-supply	common
2	+supply	+supply
3	+output	+output
⊥	-output	to case

ORDERING INFORMATION



ELECTRICAL CONNECTION/OPTION

Option	Order Code
DIN 43650 plug and socket	-
ATEX certified with DIN43650 plug and socket	EX

PROCESS CONNECTION

Option	Order Code
Pipe Clamp (Tri-clover) 1.5" 316L S/Steel PR3800	BG
Pipe Clamp (Tri-clover) 2" 316L S/Steel PR3800	BH
RJT 38mm female 316L S/St PR3820	BJ
DIN11851 female 32mm 316L S/St PR3820	BR
SMS 40mm female 316L S/St PR3820	BV
Homogeniser High Pressure 316L S/St PR3840	BZ

EXAMPLE

Option	Order Code
Output signal 4-20mA	PR3800
DIN 43650 plug and socket	-
Pressure range 0-10barg	0010
Pressure connection 1.5" Pipe Clamp flush diaphragm	BG

Correct Part Number PR3800-0010BG

For options not listed contact sales team

SPECIFICATION

PRESSURE REFERENCE

Gauge

OVERPRESSURE

Pressure can exceed the rated pressure range by the multiple below with no damage or change in calibration greater than ±0.5%FS.
 1.5x ranges 0-200mbar to 400bar
 1.2x ranges 0-600bar to 1000bar

OUTPUT SIGNAL

4-20 mA (2 wire configuration) as standard. Optional outputs available are:
 0-5 Vdc (4 wire),
 0-10 Vdc (4 wire)

ZERO OFFSET AND SPAN TOLERANCE

±0.16mA
 ±5%FS zero adjustment with easy access trimming potentiometers.

SUPPLY VOLTAGE

Measured across supply terminals on connector plug
 13-36Vdc for 4-20mA versions
 13-30Vdc for 0-5Vdc and 0-10Vdc versions

PROTECTION OF SUPPLY VOLTAGE

Protected against supply voltage reversal up to 50Vdc

ACCURACY (NON LINEARITY, HYSTERESIS & REPEATABILITY)

±0.30% FS. Typical max. Best fit straight line.

PRESSURE MEDIA

All fluids compatible with 316L stainless steel.

OPERATING TEMPERATURE RANGE

Ambient/Media: -20°C to +85°C
 Storage: +5°C to +40°C

TEMPERATURE EFFECTS

±2.5%FS total error band for -20°C to +70°C
 Typical thermal zero and span coefficients ±0.04%FS/°C

ATEX APPROVAL (4-20mA version only)

Ex II 1 G Ex ia IIC T4 Ga (zone 0)
 Ex II 1 D Ex ia IIIC T135°C Da (zone 20)
 EX I M 1 Ex ia I Ma (group I M1)

ATEX SAFETY VALUES

Ui = 28V
 Ii = 119mA
 Pi = 0.65W
 Li = 0.1
 Ci = 62nF
 Temperature range = -20°C to +70°C
 Max. cable length = 105m

ELECTROMAGNETIC COMPATABILITY

Emissions: EN61000-6-4
 Immunity: EN61000-6-2

PRESSURE CONNECTION

Please contact our sales department for information on our full range of process connections.

ELECTRICAL CONNECTION

Mating socket with screw terminal connections to DIN 43650, rated IP65.
 Option: flying lead with optional cable length

DISCLAIMER : ESI Technology Ltd operates a policy of continuous product development. We reserve the right to change specification without prior notice. All products manufactured by ESI Technology Ltd are calibrated using precision calibration equipment with traceability to international standards.



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