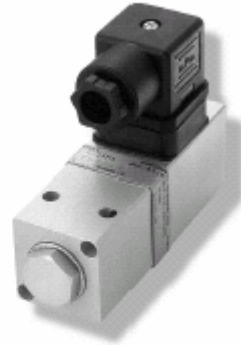




Specially developed to withstand the harsh environment to be found in sea-going vessels, the E 713 D version pressure transmitter benefits from extensive protection from electromagnetic interference, vibration and shock. Principal applications include surveillance, alarm and diagnostic systems for motors, transmissions, pumps and filters.

The E 713 D transmitter has been tested and approved by the major certifying authorities.

- TRANSBAR® Technology, ceramic sensor
- Zero and span adjustment (option)
- Compact version for block mounting
- Robust casing, IP 65
- Long term stability
- Electromagnetic interference, vibration and shock protection
- Conform *CE* (European directive 89/336/CEE)
- Marine approvals : Lloyd's Register of Shipping - Det Norske Veritas - Germanischer Lloyd - Bureau Veritas - Registro Internazionale Navale



Specifications (20°C)

Pressure range

- Absolute pressure: 0 + 2.5 to 0 + 600 bar
- Gauge pressure: 0 + 2.5 to 0 + 600 bar
- Compound pressure: -1 + 1.5 to -1 + 39 bar

Output signal

4 - 20 mA.

Process connection

Back block valve mounting with O-ring and threaded M10 x 1 female.

Wetted parts

Sensor : Ceramic (Al_2O_3)
Body : Aluminium or 1.4404 stainless steel (316 L),
FKM (viton) O-ring (Optional : NBR O-ring).

Body

- Aluminium : ranges < 400 bar
- Stainless steel 1.4404 (316L) : ranges ≥ 400 bar.

Degree of protection as per (EN 60 529)

- IP65 with DIN 43650 connector.

Electrical connections

Standard DIN 43650 connector.

Supply voltage

Standard 12 to 40 Vdc.

Resistance load

See drawing on reverse page.

Electrical insulation

standard : > 100 MΩ at 250 Vdc

Global error (IEC 770) (Including hysteresis, non linearity and repeatability)

Typ : $\pm 0.2\%$ FS - Max. $\pm 0.3\%$ F.S. (with respect to the BSL)

Compensated temperature range (zero and span) :

- standard : -10 + 55°C
- optional : -10 + 75°C

EMC Compatibility

- EMI as per EN 50081-1 and 2 (emissions are 100 times lower than the max. permissible levels)
- RFI as per EN 50082-1 and 2 (immunity)

Response time

< 3ms (10 to 90 % of range)

Working temperature

- standard : -25 + 85°C (FKM/NBR)
- optional : -40 + 85°C (NBR 24 B7)
-25 + 125°C (FKM)

Fluid temperature

-25 + 100°C (for ambient temperature < 50°C).

Storage temperature

-40 + 85°C

Thermal zero drift :

- standard : $\pm 0.015\%$ F.S./°C - max. $\pm 0.025\%$ F.S./°C
- optional : $\pm 0.015\%$ F.S./°C

Span thermal shift :

Typ : $\pm 0.01\%$ /°C - Max. $\pm 0.015\%$ /°C

Shock resistance (IEC 68-2-6)

25 falls of 1 meter high

Vibration resistance (IEC 68-2-6)

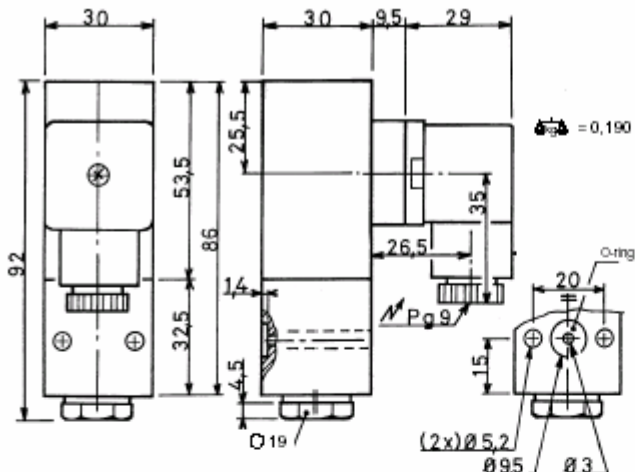
- Amplitude : 1.5 mm from 10 to 55 Hz
- Acceleration : 20g from 55 to 2 kHz

Uncoded options (have to be listed after the code number)

- Oxygen cleanliness
- Calibration with certificate (order ref : Q 1060)
- Overrange protection (restrictor screw)
- Other O-rings : please consult us
- Zero adjustment : $\pm 20\%$ of F.S.
- Span adjustment : $\pm 50\%$ of F.S. ($\pm 20\%$ for 600 bar).



Dimensions (mm), connections

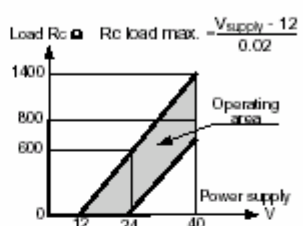


Connections

1	+ supply
2	+ supply
3	unconnected
⊥	ground

Load diagram

4-20 mA (12 - 40 VDC)



Measuring ranges

Pressure range	Compound	-1+15	-1+3	-1+5	-1+9	-1+15	-1+24	-1+39	-	-	-	-	-	-
	Gauge	2.5	0+4	0+6	0+10	0+16	0+25	0+40	0+60	0+100	0+160	0+250	0+400	0+600
Electrical measuring domain		2.75	4.4	6.6	11	17.6	27.5	44	66	110	176	275	440	660
Max over pressure		4	8	12	20	32	50	80	120	200	320	500	800	1000
Burst pressure		7	12	18	30	48	75	120	180	300	480	800	1000	1000

Unit of measurement : bar

Codification

E 7 1 3 D | **E 6** | **B** | | | *

Connection

Back block valve mounting with O-ring and threaded M10 x 1 female _____ E6

Nature of O'ring (cell and connections)

FKM (Viton) standard _____ 9
NBR (Nitril) _____ 3

Pressure type
A Absolute
R Gauge

Pressure ranges
B = bar

code	Pressure ranges bar
B74	-1 + 1.5
B76	-1 + 3
B77	-1 + 5
B79	-1 + 9
B81	-1 + 15
B82	-1 + 24
B11	-1 + 39
B18	0 + 2.5
B19	0 + 4
B20	0 + 6
B22	0 + 10
B24	0 + 16
B26	0 + 25
B27	0 + 40
B29	0 + 60
B31	0 + 100
B33	0 + 160
B35	0 + 250
B38	0 + 400
B39	0 + 600

* Uncoded options have to be listed after the code number.

Codification example : E 713 DE69 B18A (calibration with certificate)
Pressure transmitter for block mounting, output signal : 4-20 mA, back block valve mounting with FKM (Viton) O'Ring and threaded M10x1 female, 0+2,5 bar absolute, option : calibration with certificate.

Modifications reserved