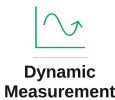


HIGH-TEMPERATURE PRESSURE TRANSDUCER



- MEDIUM UP TO +150 °C
- 5 TO 2500 bar
- COOLING FINS · IP65



NOMINAL PRESSURE (FS)

Pressure type	Nominal pressure (FS)	Zero at	Code
Gauge (R)	5 · 10 · 20 bar	atmospheric pressure	R
Gauge (R)	50 · 100 · 250 · 350 · 500 · 700 bar	atmospheric pressure	R
Gauge (R)	1000 · 1500 · 2000 · 2500 bar	atmospheric pressure	R

Gauge pressure only — the source lists no absolute version. What sets this model apart is the temperature: the medium may reach +150 °C while the electronics stay at +70 °C, kept apart by the cooling fins between coupling and housing. The four highest ranges carry the G 1/2" process coupling. Seat diameter ØF 6 mm up to 10 bar, 7.2 mm from 20 bar.



TECHNICAL DATA

PRECISION

Linearity and hysteresis	$\leq \pm 0.20 \%$
Calibration tolerance	$\leq \pm 0.1 \%$
Temperature effect on zero (1 °C)	$\leq \pm 0.015 \%$
Temperature effect on sensitivity (1 °C)	$\leq \pm 0.015 \%$
Zero balance	$\pm 10 \%$, adjustable
Zero adjustment	Internal, under the nut
Response frequency	0.5 to 5 kHz
Reference temperature	+23 °C

MECHANICAL PROPERTIES

Sensor material	Stainless steel 17-4 PH, monolithic
Sealing	Entirely laser welded, resin encapsulated
Protection class	IP65 · EN 60529
Process coupling	G 1/4" male · G 1/2" male · BSP male
Tightening	Wrench 27 mm · 28 N·m
Body · length	Ø 25 mm · approx. 122 mm overall · 96 mm body
Working temperature range	Medium -10...+150 °C · ambient -10...+70 °C
Storage temperature range	-20...+80 °C

FIELD OF USE — Hot media in process plant, steam and thermal oil circuits, injection moulding and extrusion — wherever the medium is hotter than an ordinary transducer allows.

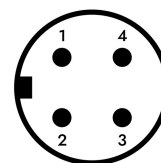
MECHANICAL LIMITS

Service pressure	100 %	May be applied continuously without leaving the specification.
Max. permissible pressure	150 %	May be applied without permanent change of the characteristics.
Breaking pressure	> 300 %	Pressure at which mechanical failure may occur.
Highly dynamic pressure	75 %	Amplitude permitted for rapidly alternating pressure.

ELECTRICAL PROPERTIES

Output signal	4–20 mA (2 or 3 wires)
Output signal, voltage	0–5 V · 0–10 V
Nominal power supply, 4–20 mA and 0–5 V	12–24 Vdc
Nominal power supply, 0–10 V	15–24 Vdc
Max. power supply	28 Vdc
Max. absorption	30 mA (3 wires) · 20 mA (2 wires)
Loading resistance, voltage	min. 3 kΩ
Loading resistance, current	0 to 470 Ω
Insulation resistance	> 2 GΩ
Electrical connection	M12x1 connector with a moulded shielded PVC cable, Ø 5.2 mm, 4 × 0.34 mm², 3 m

ELECTRICAL CONNECTION



M12x1, 4 poles

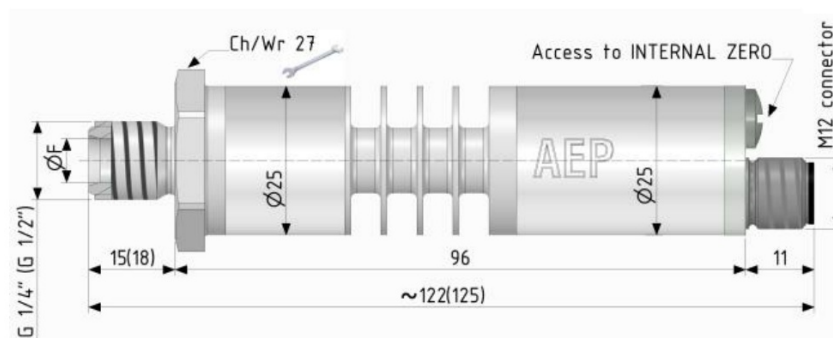
3 WIRES	M12x1	Cable
Supply +	1	RED
Supply – · reference	3	BLACK
Output	4	WHITE
Earth · shield	2	On the lock nut

The source shows the three-wire connection only, and the M12x1 connector as the sole connection. Pin numbering refers to the connector seen from the front.

All four values refer to the nominal pressure of the version ordered.

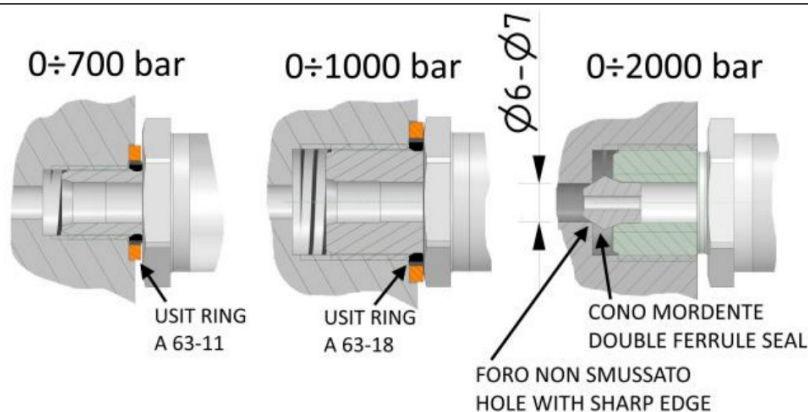


DIMENSIONS (mm)



Nominal pressure ≤ 10 bar: $\text{ØF}=6$
 Nominal pressure ≥ 20 bar: $\text{ØF}=7.2$

Dimensions in mm. The fins between process coupling and housing keep the medium temperature away from the electronics. Values in brackets apply to the G 1/2" coupling.



Typical installation. Up to 700 bar with a USIT ring A 63-11, up to 1000 bar with a USIT ring A 63-18, above that with a double ferrule seal in a hole with a sharp edge, $\text{Ø} 6$ to $\text{Ø} 7$.



COMPLIANCE AND CERTIFICATION

Protection rating	IP65 according to EN 60529 · entirely laser welded and resin encapsulated
Compliance	CE, RoHS, REACH
Applied standards	EN 61326-1 (2013) · EN 61010-1 (2013)
Directives and regulations	2014/30/EU · 2014/35/EU · 2011/65/EU (RoHS) · 2012/19/EU (WEEE) · 1907/2006 (REACH)
Quality system	Certified according to EN ISO 9001 · Dasa-Rägister IQ-1100-01
Declaration of conformity	Issued by the manufacturer on 01/04/2016, covering all options listed in the sales catalogue
Food contact	Declaration of conformity for materials in contact with food to (CE) 1935/2004 and (CE) 2023/2006 (GMP) — for versions from 20 bar upwards, material 17-4 PH (WN 1.4542)
On request	Calibration report

OPTIONS AND ACCESSORIES

Item	Availability	Data
Food contact (MOCA)	Option	For versions from 20 bar upwards
Calibration report	On request	Factory calibration

