

 PRESSURE



- LINEARITY 0.10 % · Lab 0.05 %
- 100 mbar TO 2000 bar
- IP65 · DIN OR MIL4M



IP65



Stainless Steel



**Fully Laser
Welded**



Dynamic Measurement

Pressure type	Nominal pressure (FS)	Zero at	Code
Gauge (R)	100 · 250 · 500 mbar	atmospheric pressure	R
Gauge (R)	1 · 2.5 · 5 · 10 · 20 bar	atmospheric pressure	R
Absolute (A)	1 · 2.5 · 5 · 10 · 20 bar	absolute vacuum	A
Absolute (A)	50 · 100 · 250 · 350 · 500 · 700 bar	absolute vacuum	A
Absolute (A)	1000 · 1500 · 2000 bar	absolute vacuum	A



TECHNICAL DATA

PRECISION

Linearity and hysteresis	$\leq \pm 0.10 \% \cdot \text{LabTP14} \leq \pm 0.05 \%$
Calibration tolerance	$\leq \pm 0.1 \%$
Temperature effect on zero (1 °C)	$\leq \pm 0.005 \%$
Temperature effect on sensitivity (1 °C)	$\leq \pm 0.005 \%$
Zero balance	$\pm 10 \%$, adjustable
Zero adjustment	Internal, under the nut
Response frequency	0.5 to 5 kHz
Reference temperature	+23 °C

MECHANICAL PROPERTIES

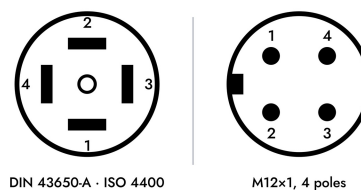
Sensor material	Stainless steel 17-4 PH, monolithic
Sealing	Entirely laser welded, resin encapsulated
Protection class	IP65 · EN 60529
Process coupling	G 1/4" male · G 1/2" male · BSP male
Tightening	Wrench 27 mm · 28 N·m
Body · length	Ø 25 mm · 109 mm DIN · 85 mm MIL4M
Working temperature range	-10...+70 °C
Storage temperature range	-20...+80 °C

FIELD OF USE — Laboratory and reference measurement, test benches, calibration rigs and process control where 0.10 % or better is needed.

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	Connector DIN 43650-A · ISO 4400 · MIL4M with 3 m cable

ELECTRICAL CONNECTION



3 WIRES	DIN · M12	Moulded cable
Supply +	1 · 1	RED
Supply – · reference	2 · 3	BLACK
Output	3 · 4	WHITE
Earth · shield	4 · 2	On the lock nut
2 WIRES	DIN · M12	Moulded cable
Supply +	1 · 1	RED
To instrument	2 · 3	BLACK
Earth · shield	4 · 2	On the lock nut
Not connected	3 · 4	—

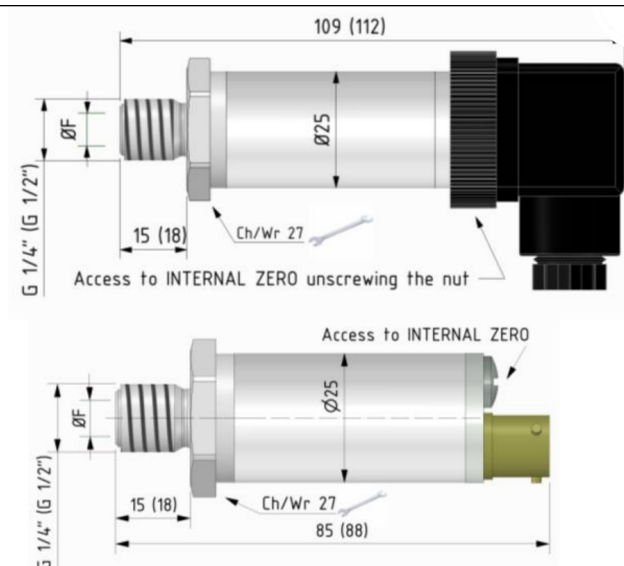
MECHANICAL LIMITS

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.

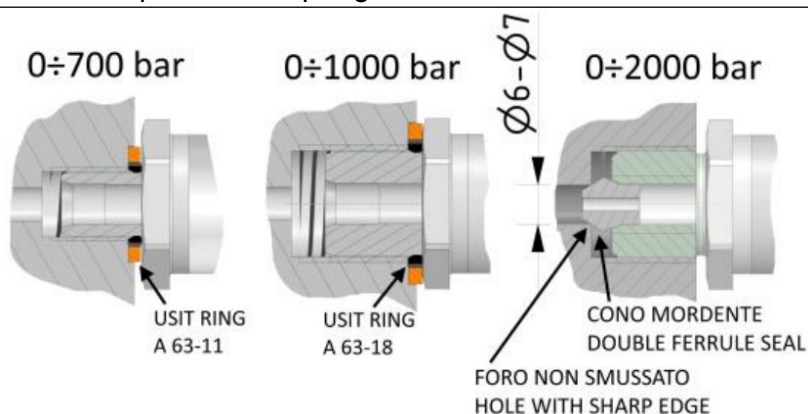
All four values refer to the nominal pressure of the version ordered.



DIMENSIONS (mm)



Dimensions in mm, above with the DIN connector, below with the MIL4M connector. Values in brackets apply to the G 1/2" process 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, $\varnothing 6$ to $\varnothing 7$.



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
LabTP14	Option	Laboratory version, $\leq \pm 0.05\%$, 4–20 mA three-wire
MIL4M connector	Option	With a 3 m cable instead of the DIN connector
Food contact (MOCA)	Option	For versions from 20 bar upwards
Calibration report	On request	Factory calibration

