

**DESCRIPTION**

OCTO 3410 digital pressure gauge is based on a ceramic oil-free sensor to withstand aggressive* media. Optionally, plastic process connection is available for certain alkalis and acids. Flush ceramic diaphragm and the open port options are available for the viscous and/or abrasive media. Oil-free dry pressure cell makes OCTO 3410 suitable for environments with high oxygen levels and allows to measure gases with high O₂ concentrations. Powered by 2xAA batteries, OCTO 3410 provides up to a year of reliable readings of pressure updated twice every second in active mode, and up to 5 years in on-demand mode. For user convenience, the instrument has a backlight with auto-off feature. In addition to the current pressure reading, a multifunctional display shows minimum and maximum values since the last reset. User can trim zero and the full scale, select measurement units, decimal point position, adjust auto-off timeout.

SPECIFICATIONS

Ranges: 0.6 bar up to 600 bar

Basic accuracy: $\pm 0.5\%$

Sensor: ceramic thick film

Pressure port: G 3/4" (for flush diaphragm); G1/2"; G1/4"; 1/2" NPT; 1/4" NPT; M20x1.5; other

Pressure port materials: stainless steel (for abrasive media), plastic (for aggressive media)

Media temperature: -10...+60 °C

Ambient temperature: 0...+50 °C

Display: 4½ digits with backlight, min / max value, bargraph, units, 330° rotatable

Battery life: 1 to 5 years

Ingress protection: IP65

Features: configurable via buttons, including zero trim, auto-off, etc

APPLICATIONS

Certain alkalis and acids

Abrasive media

Oxygen

Aggressive media*

Sewage, waste water, sludge

Level monitoring in tanks

Viscous media

* please consult the manufacturer for particular media compatibility

Appearance, mounting kit contents and/or specifications are subject to change without prior notice. We are constantly working on further improvement of our products.
Delivery is subject to standard terms of delivery.
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TECHNICAL SPECIFICATIONS

MEASURING RANGES

Pressure range, bar		Overpressure, bar	Burst pressure, bar	Pressure range, bar		Overpressure, bar	Burst pressure, bar
Gauge	Absolute			Gauge	Absolute		
0...0.6	0...0.6	2.0	4.0	0...25	0...25	40	50
0...1.0	0...1.0	2.0	4.0	0...40	0...40	100	120
0...1.6	0...1.6	4.0	5.0	0...60	0...60	100	120
0...2.5	0...2.5	4.0	5.0	0...100	0...100	200	250
0...4.0	0...4.0	10	12	0...160	0...160	400	500
0...6.0	0...6.0	10	12	0...250	0...250	600	650
0...10	0...10	20	25	0...400	0...400	600	650
0...16	0...16	40	50	0...600	0...600	800	900

PERFORMANCE

Accuracy, % of span*	≤ ±0.5 (standard) ± 1 digit
Temperature effect (% of span / 10 °C)	≤ ±0.2
Compensated range	-10...+60 °C
Long-term stability	≤ ±0.3% of span / year
Startup time (after switching-on)	≤ 1 s
Measurements rate	2 measurements per second

* Accuracy includes non-linearity, hysteresis and non-repeatability.

OPERATING CONDITIONS

Medium temperature (depends on seal)	-10...+60 °C
Ambient temperature	0...+50 °C
Storage temperature	-20...+50 °C
Vibration resistance	5 g RMS (20...2000 Hz)
Shock resistance	10 g
Pressure sensor service life	> 100×10 ⁶ cycles

* Except for devices used with aggressive media.

MECHANICAL SPECIFICATIONS

Pressure port material	stainless steel 316L (1.4404), PVC (-10...+50 °C, up to 10 bar), PVDF (-10...+60 °C, up to 25 bar)	
Seal	EPDM NBR FKM	
Diaphragm	ceramics	
Wetted parts	Diaphragm, pressure port, seal	
Pressure port	Stainless steel	PVC, PVDF
	M20x1.5 DIN 3852; M20x1.5 EN 837; G 1/2" DIN 3852; G 1/2" EN 837; G 1/4" DIN 3852; G 1/4" EN 837; 1/2" NPT; 1/4" NPT	G 1/2" DIN 3852 open port; G 3/4" DIN 3852 flush diaphragm
Ingress protection	IP65	
Dimensions, mm, max	130×80×45	
Weight, max	0.3 kg	

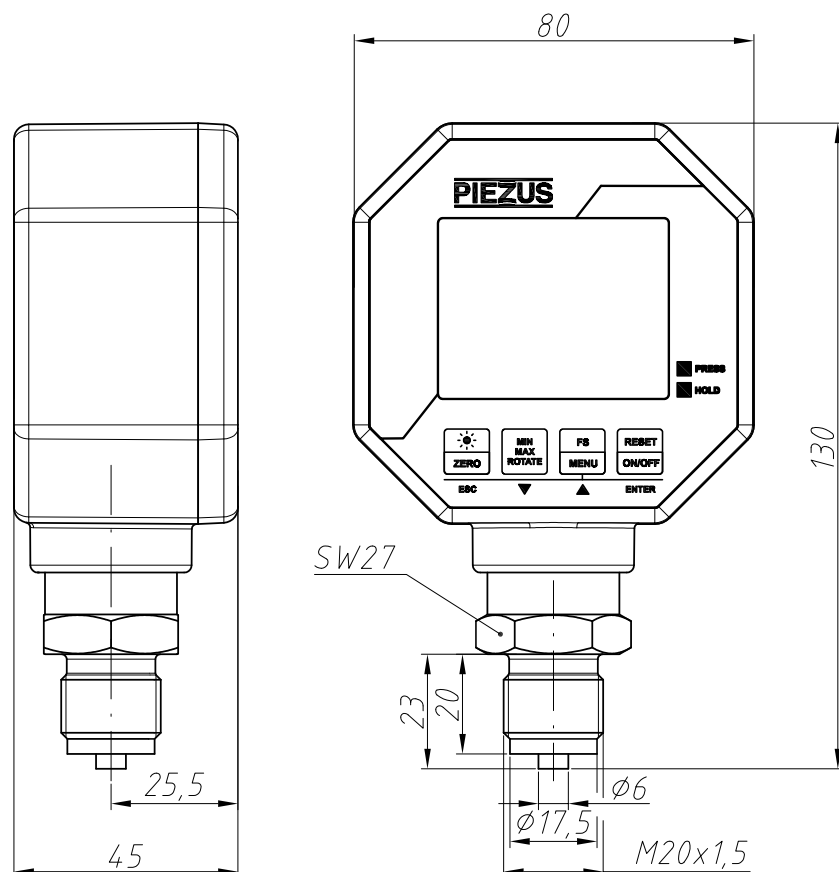
DIGITAL DISPLAY

Display type	LED, digit high 15 mm, bargraph
Displayed units	bar, mbar, kPa, Pa, psi, mH ₂ O, kgf/cm ² , %
Displayed values range	-19999...+19999
Display accuracy	0.1 % of span ± 1 digit
Settling time	< 1 s (with damping disabled)

ELECTRICAL SPECIFICATIONS

Autonomous power supply voltage, V	3 V (nominal)
Battery	AA (2 batteries, 1.5 V)
Battery life (depends on mode)	1 to 5 years

DIMENSIONS (mm)



PRESSURE PORTS, DIMENSIONS (mm)

M20x1.5; G1/2" EN 837	M20x1.5; G1/2" DIN 3852	G1/2" DIN 3852 open port	1/2" NPT
G1/4" EN 837	G1/4" DIN 3852	G3/4" DIN 3852 flush diaphragm	1/4" NPT

ORDERING CODE

OCTO 3410	-X	-X	-XXXX	-X	-XXX	-X	-X	-XX
MEASUREMENT TYPE								
Gauge	G							
Absolute	A							
Vacuum, LRL = -1 bar	V							
UNIT OF MEASUREMENT								
bar	B							
kg/cm ²	S							
Other (specify when ordering)	X							
UPPER RANGE LIMIT (URL)								
bar, kg/cm ²								
0.6			0600					
1.0			1000					
1.6			1600					
2.5			2500					
4.0			4000					
6.0			6000					
10			1001					
16			1601					
25			2501					
40			4001					
60			6001					
100			1002					
160			1602					
250			2502					
400			4002					
600			6002					
Other			XXXX					
ACCURACY								
0.5%	D							
Other (specify when ordering)	X							
PRESSURE PORT								
M20x1.5 DIN 3852 (standard)			200					
M20x1.5 EN 837 (standard)			201					
G1/2" DIN 3852 (standard)			720					
G1/2" EN 837 (standard)			721					
G1/4" DIN 3852 (standard)			740					
G1/4" EN 837			741					
G1/2" DIN 3852, open port			726					
G3/4" DIN 3852, flush diaphragm			735					
1/4" NPT			840					
1/2" NPT			820					
Other (specify when ordering)			XXX					

ORDERING CODE (CONTINUED)

OCTO 3410	-X	-X	-XXXX	-X	-XXX	-X	-X	-XX
PRESSURE PORT MATERIAL								
Stainless steel						A		
PVC (-10...+50 °C, up to 10 bar)						P		
PVDF (-10...+60 °C, up to 25 bar)						F		
SEALS								
FKM (standard)						F		
NBR						N		
EPDM						E		
Other (specify when ordering)						X		
VERSION								
Standard						00		
Other (specify when ordering)						XX		

Example: OCTO 3410 G-B-1601-D-201-A-F-00

ACCESSORIES

				
DZ 10 Pressure snubber				