

DIGITAL PRESSURE SWITCH, STAINLESS STEEL



- GAUGE · ABSOLUTE · COMPOUND
- HOUSING Ø 60 OR Ø 80 MM
- ONE / TWO RELAYS · CONTROLLER
- 4-DIGIT LED DISPLAY
- AISI 304 · DIAPHRAGM 316L



Display



Stainless Steel
AISI 304 · 1.4301

VERSIONS

Feature	Versions
Gauge pressure	0 ... 50 / 100 / 350 / 600 mbar · 0 ... 1 / 2 / 6 / 10 / 25 / 60 / 100 / 160 / 250 / 400 / 600 / 1000 bar
Absolute pressure	0 ... 50 / 100 / 350 / 600 mbar · 0 ... 1 / 2 / 6 / 10 / 25 bar
Compound pressure	-10 ... 10 · -50 ... 50 · -100 ... 100 · -100 ... 0 · -100 ... 500 · -100 ... 900 kPa
Housing and mounting	Ø 60 or Ø 80 mm · radial or axial
Output	one relay (5 wires) · two relays (8 wires, Ø 80 only) · controller (5 wires, Ø 80 only)
Process connection	M20 × 1.5 (standard), G1/4, G1/2, R1/4, R3/8, NPT1/4, NPT1/2, M14 × 1.5 · male or female thread
Accuracy	0.5 % (standard) or 0.25 %



OVERVIEW

Digital pressure switch in a rugged stainless steel housing: displays the pressure and switches via one or two relays – for pressure protection, constant pressure control and plant monitoring.

A diffused silicon sensor behind a 316L isolating diaphragm measures water, air, oil and hydraulic oil as well as other media that do not attack stainless steel. Housing and connection are stainless steel 304 and designed to resist overpressure. The display converts between international pressure units.

0 ... 1000 bar largest range	0.25 % optional accuracy	10 ms sampling interval	± 0.2 % long-term stability F.S. / year
--	--	---	---

MEASUREMENT	DESIGN
■ gauge, absolute and compound pressure	■ housing Ø 60 or Ø 80 mm
■ accuracy 0.5 % or 0.25 %	■ radial or axial
■ 4-digit LED, -1999 ... 9999	■ one or two relays, controller
■ units switchable	■ 24 V DC, 220 V AC optional



TECHNICAL DATA

MEASUREMENT

Measuring range	–100 kPa ... 0 · 0 ... 5 kPa to 0 ... 100 MPa
Pressure type	gauge pressure (default), absolute pressure, negative pressure
Measuring principle	diffused silicon sensor
Accuracy level	0.5 % (default), 0.25 %
Long-term stability	± 0.2 % F.S. / year
Sampling interval	10 ms

ENVIRONMENT

Operating temperature	–20 ... +70 °C
-----------------------	----------------

MECHANICAL PROPERTIES

Shell and joint	stainless steel 304
Isolation diaphragm	stainless steel 316L
Dial diameter	Ø 60 / Ø 80 mm

WIRE ASSIGNMENT

Ø 80 · two relays	Ø 60 · one relay	Ø 80 · controller
RD +	RD +	RD +
YG NC1	WH NO	YE upper limit
GN COM1	YE NC	WH lower limit
WH NO1	GN COM	GN COM
OG NC2	BK –	BK –
BU COM2		
BN NO2		
BK –		

ELECTRICAL PROPERTIES

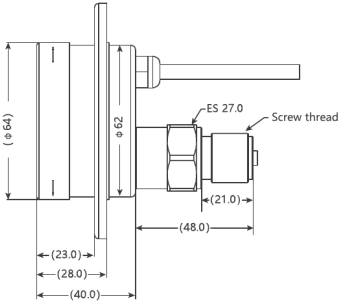
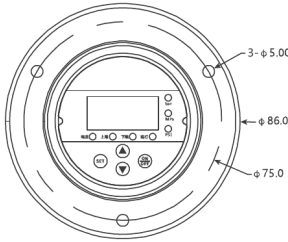
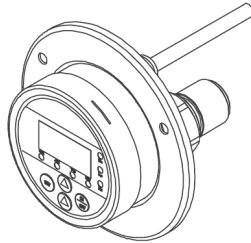
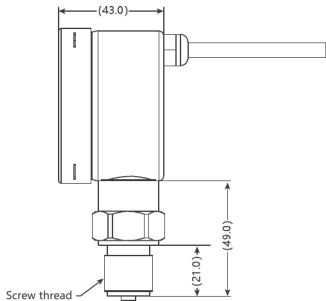
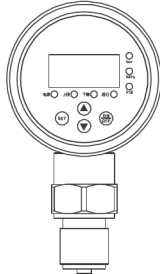
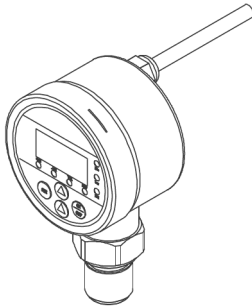
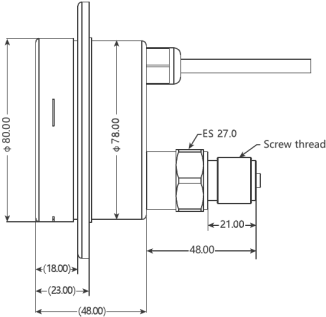
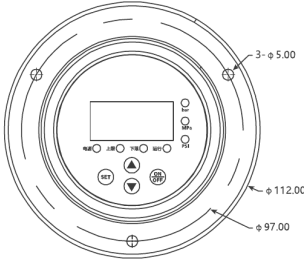
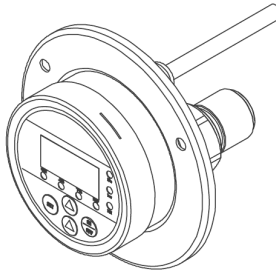
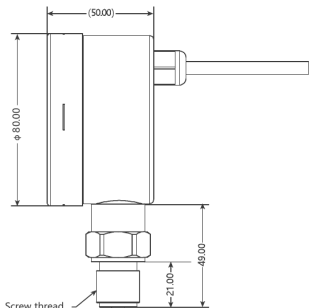
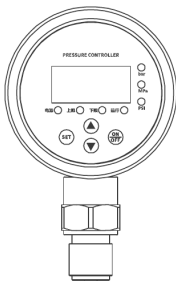
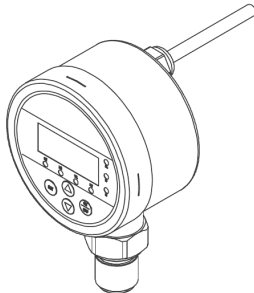
Power supply	24 V DC, 220 V AC optional
Output	one relay · two relays (Ø 80 only) · controller with upper and lower limit (Ø 80 only)
Cable	5 wires (one relay, controller) · 8 wires (two relays)

DISPLAY

Display mode	4-digit LED
Display range	–1999 ... 9999
Units	international pressure units switchable



DIMENSIONS (mm)

Ø 60, axial mounting		
		
Ø 60, radial mounting		
		
Ø 80, axial mounting		
		
Ø 80, radial mounting		
		

Dimensions in mm. ES = width across flats.

