

YTED Digital Pressure Switch

Measures absolute or relative vacuum or pressure,
Two threshold outputs : PNP transistors (400 mA)
Power supply via 4-20 mA current loop
Modular electrical and hydraulic connections
Totally stainless steel, rugged build for severe industrial environments
CE compliant
LCIE 03 ATEX 6300X

CE 0081



I M1
EEx ia I



II 1 G
EEx ia IIC T6 or T5

Hazardous area: Area 0, 1

The YTED digital pressure switch is designed to control pressure in industrial hydraulic or pneumatic processes such as level regulation or jack operation.

The YTED is based on microprocessor technology and is entirely programmable on site via protected digital keys.



Specifications (20 °C)

Measurement range	Absolute pressure : 0 + 1 ... 0 + 60 bar Relative pressure : -1 + 0 ... 0 + 400 bar
Display	-1999 to +9999 points. 4 digit red LEDs (8 mm high)
Power supply voltage	10 to 28 VDC, unregulated. Polarity reversion protection.
Switching capacity	40 mA without 28 VDC
Output signal	Power supply via 4-20mA current loop
Electromagnetic compatibility	Standards EN50082-1 and -2 (immunity) Standards EN50081-1 and -2 (emission)
Global accuracy	± 0.5% of measurement range (based on best straight line)
Repeatability	± 0.2% of F.S.
Operating temperature Ambient (Ta)	-20...+75°C Ta = +40°C G: T6 Ta = +70°C G: T5 (G = Gas)
Fluid	-20...+100°C
Storage temperature	-30...+85°C
Thermal drift	± 0.015% measurement range/°C max.
Materials in contact with the fluid	Ceramic, stainless steel 1.4404 (316L), NBR seal (standard)
Connections	Electrical : connector M12-5 pins male contacts Hydraulic : G 1/2 (standard) G 1/4 DIN 16288, G1/4 Female, 1/2 NPT, 1/4 NPT Aseptic connection : see data sheet A31.03
IP rating (EN 60 529)	IP 65
Typically response time of the threshold outputs	≤ 20 ms
Resistance to vibrations (EN 60068-2-6)	1.5 mm (10 Hz ... 55 Hz) / 20 g (55 Hz ... 2 kHz)
Resistance to shocks (EN 60028-2-32)	25 drops from 1 meter onto concrete floor

Options

Uncoded options (to be specified in words after code)

5-pin M12 female connector, screw terminal connection
2-metre, 5-metre or 10-metre cable with 5-pin M12 female connector
Different electrical connections
Different hydraulic connections: flush diaphragm for viscous fluids
Delay time on thresholds trigger point adjustable from 20 ms to 2 s
Contact us for other possibilities (RS 485 digital output, ...)

Configuration

The three keys on the front panel are used to configure the following operating parameters:

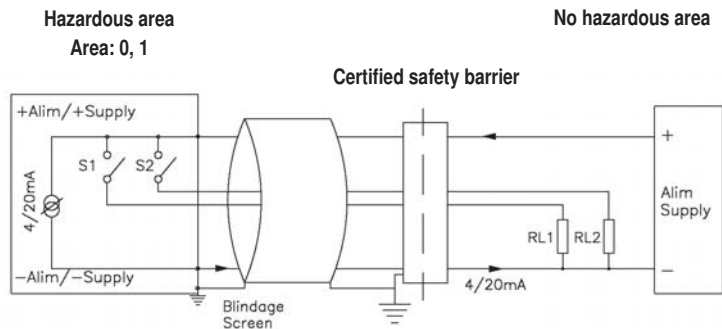
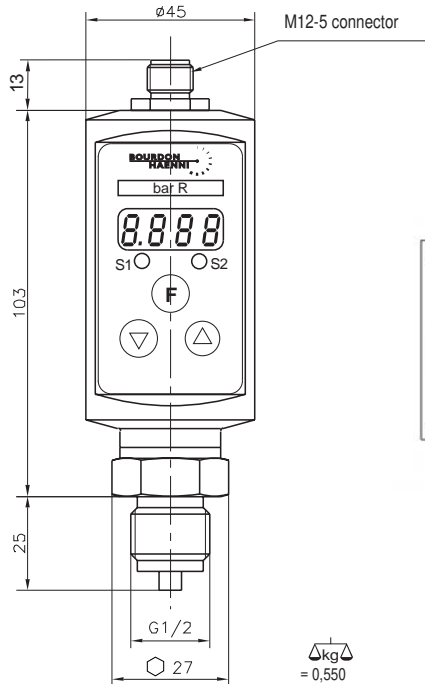
Trigger point of 2 independent thresholds
Hysteresis value of each adjustable threshold
Threshold active state (NO or NC for alarm configuration)
Pressure auto-zero
Parameter selftest and protection by 4-digit code

**BOURDON
HAENNI**

made to measure



Dimensions (mm), Connections



Measurement range (bar)

Ranges	Absolute	—	—	0 +1	0 +2.5	0 +4	0 +6	0 +10	0 +16	0 +25	0 +40	0 +60	—	—	—
Gauge	-1 +0	-1 +0.6	0 +1	0 +2.5	0 +4	0 +6	0 +10	0 +16	0 +25	0 +40	0 +60	0 +100	0 +250	0 +400	
Max. over pressure	3	3	3	4	8	12	20	32	50	80	120	200	500	600	
Burst pressure	7	7	7	7	12	18	30	48	75	120	180	300	600	800	
Display at Max. range	-1.000/0	-1.000/0.600	0/1.000	0/2.500	0/4.000	0/6.000	0/10.00	0/16.00	0/25.00	0/40.00	0/60.00	0/100.0	0/250.0	0/400.0	

Ordering Details - YTED

Type	1'...4' digit	YTEDxxxxxx
Digital pressure switch	YTED	
Hydraulic connection	5' digit	
G1/4 DIN 16288	2	
G1/2 (standard)	3	
1/4 NPT	5	
1/2 NPT	6	
G 1/4 Female	H	
Sensor seal	6' digit	
NBR (nitrile) standard	3	
EPDM	5	
Kalrez®	7	
FKM (Viton®)	9	
Pressure range	7'...9' digit	
See codes in table	xxx	
Pressure mode	10' digit	
Absolute	A	
Gauge	R	

code	Ranges in Bar	code	Ranges in psi	A or R
B59	-1 + 0	H59	-30"Hg + 0	- R
B72	-1 + 0.6			
B15	0 + 1	H15	0 + 15	A R
B18	0 + 2.5	H17	0 + 30	A R
B19	0 + 4	H19	0 + 60	A R
B20	0 + 6	H21	0 + 100	A R
B22	0 + 10	H22	0 + 160	A R
B24	0 + 16	H23	0 + 200	A R
B26	0 + 25	H26	0 + 400	A R
B27	0 + 40	H27	0 + 600	A R
B29	0 + 60	H29	0 + 800	A R
B31	0 + 100	H31	0 + 1500	- R
B35	0 + 250	H34	0 + 3000	- R
B38	0 + 400	H38	0 6000	- R

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