



Electronic Pressure Switch DS 230
with 1 or 2 switching outputs, 4-digit display

DS 230

Electronic Pressure Switch Type DS 230
for pressure control, with digital display (4 digits)
1 or 2 solid state contacts (switching outputs)
Accuracy $\pm 0.5\%$ FS (BSL)
Self-monitoring



- Pressure Ranges from 0-1 bar to 0-400 bar (Gauge Pressure)
- Tamper proof, rugged construction, vibration- and shock-proof
- **LED-Display:** 4 digits (digit height 7.62 mm)
Housing and Display rotatable
- **1 or 2 switching outputs**, free configurable
Hysteresis- or Window-mode, Delay time ON/OFF
- **High control comfort**, various software-features
access protection, free configurable display, MAX, MIN etc.
- Very good long time stability

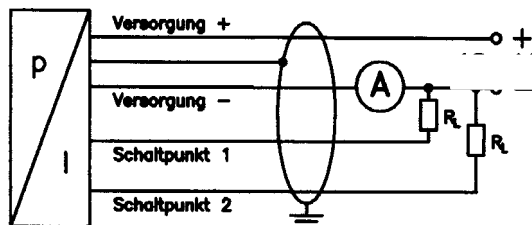
Areas of application of the DS 230 are from pneumatics to hydraulics and the item is suitable for most varied MSR functions - precisely and long-term stable.

The DS 230 is suitable with all media compatible with stainless steel and ceramics. On the 4-digits LED display is represented the system pressure. Besides the display supports the programming of the DS 230 by means of transparency keyboard. The software as functions, e.g. access protection, configuring the display and the switching outputs etc.

The set points are completely free configurable within the range from 0 to 100% of nominal pressure.

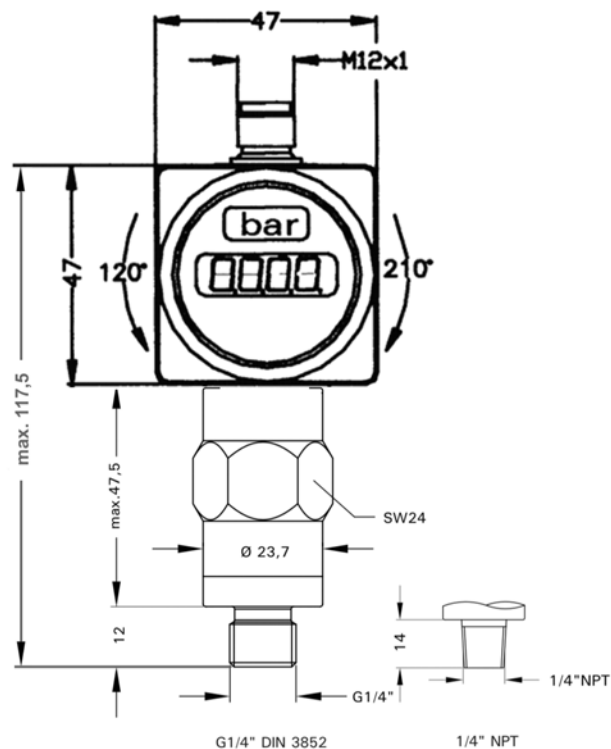
As additional highlight you can turn the display of the DS 230, so that final positions can be adapted due to the installation position fast.

Electrical Connection:	Pin
Supply +	1
Supply -	3
Set Point 1	4
Set Point 2	5
Ground: via pressure port	



Supply 18...36 VDC

(Range 0-400 bar has other case dimension)



DRUCK & TEMPERATUR Leitenberger GmbH
Bahnhofstr. 33 • D-72138 Kirchentellinsfurt • Germany
Tel.: 0 71 21 - 9 09 20 - 0 • Fax: 0 71 21 - 9 09 20 - 99
E-Mail: dt-info@leitenberger.de • <http://www.leitenberger.de>





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Technical Data:

Pressure Ranges:														
Nominal Pressure P _N rel(bar)	0-1	0-1,6	0-2,5	0-4	0-6	0-10	0-16	0-25	0-40	0-60	0-100	0-160	0-250	0-400
Overpressure P _{max} (bar)	7		12		25		50		120		250		600	
Power Supply:	18...36 VDC													
Set Points (Switching Outputs):														
Number / Type:	1 or 2 independent PNP (Open Collector), contact rating max. 125 mA, short-circuit proofed													
Switching Freq./Cycles:	Frequency max. 10 Hz; Cycles min. 100 x 10 ⁶													
Delay time:	0...9,9 s													
Thermal Effects:	Thermal effects in compensated range -25...+85°C: ±0,5% FSO / 10 K													
Mechanical Stability:	Vibration: 10 g RMS (20...2000 Hz), Shock: 100 g / 11 ms													
Permissible Temperatures:	Medium: +25...+125°C; Electronic/Ambient: 0...+70°C; Storage: -40...+85°C													
Electrical Connection:	Male connector M12 x 1 (5 pins, plastic (WITHOUT female plug), Protection IP 67													
Mechanical Connections:	1/4" BSP (DIN 3852); optional 1/4" NPT male													
Display:														
Display:	4 digits, red LED, digit height 7.62 mm						Indicating Range:		-1999...+9999					
Accuracy:	1% ±1 Digit													
Materials:	Pressure connection: Stainless steel 1.4305; Seal: FKM; Diaphragm Ceramic Al ₂ O ₃ 96% Housing: Plastic PA 6.6; Indicator housing: Polycarbonat. (Wetted parts: pressure connection, seal and diaphragm)													

Order-Code:

D	S	2	3	0	-					-		-			-					-	0	0	0
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Input (Range in bar)	0 - 1.....	1	0	0	1																		
	0 - 1,6.....	1	6	0	1																		
	0 - 2,5.....	2	5	0	1																		
	0 - 4.....	4	0	0	1																		
	0 - 6.....	6	0	0	1																		
	0 - 10.....	1	0	0	2																		
	0 - 16.....	1	6	0	2																		
	0 - 25.....	2	5	0	2																		
	0 - 40.....	4	0	0	2																		
	0 - 60.....	6	0	0	2																		
	0 - 100.....	1	0	0	3																		
	0 - 160.....	1	6	0	3																		
	0 - 250.....	2	5	0	3																		
	0 - 400.....	4	0	0	3																		
Switching Outputs																							
	1 Switching Output.....									1													
	2 Switching Outputs.....									2													
Accuracy																							
	±0.5% FS (BSL).....									5													
Electrical Connection																							
	M12x1 (5 pins).....										N	0											
Mechanical Connection																							
	1/4" BSP as per DIN 3852.....																					3	
	1/4" NPT male.....																						0

Optional there are available female plugs for the electrical connection M12x1:
 Straight execution = Order-Code DMU-S-D-000057, Angle 90° execution = Order-Code DMU-S-D-000082
Electronic Pressure Switches with additional analogue output: see type DS 200



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