

# PRESSURE

## Electronic Pressure Switch UDS 2 - V2

**NEW**  
**Little**  
**switch,**  
**great**  
**performance**



**switch**



**measure**



**control**



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## Type UDS 2 - V2

### Features:

Two transistor-switching contacts  
 Switch contact indication with two LEDs  
 Switchpoint-/parameter adjustment over PC-interface  
 or hand-held terminal  
 Process connection stainless steel 1.4305  
 Housing elastomere PA 6,6  
 Electrical connection plug M 12 x 1  
 Repeatability 0,2% f. s.  
 Mechanical robust and reliable

### Measuring range:

2,0...400 bar, gauge

### Applications:

Machine building industry,  
 Pneumatic and mobile hydraulics

### Technical Data

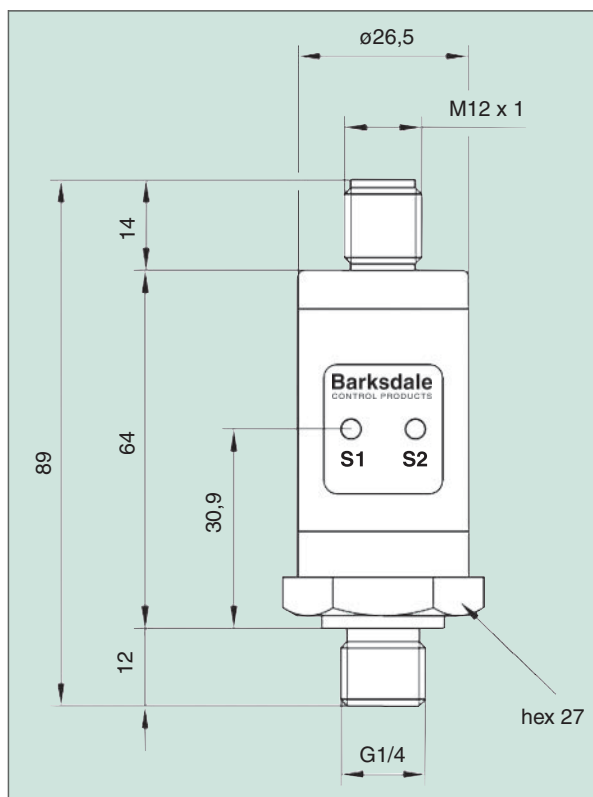
Pressure Ranges (bar)	
Nominal Pressure P <sub>n</sub> rel. :	10 50 100 200 400
Max. Overpressure :	25 120 250 400 600
Power Supply :	12...30 V DC
Output Signals	
Switching Output	
Quantity :	Standard 1, optional 2
Mode :	pnp
Switching Performance :	300 mA, short-circuit proof
Power Consumption :	<4 mA (without load)
Switch Point Accuracy :	<±1 % f. s.
Repeatability :	<±0,2 % f. s.
Status Indicator :	SP 1 LED green, SP 2: LED yellow
Switch Function :	Standard: normal - open optional: normal - close
Switchmode :	Standard: hysteresis mode optional: window - mode
On Setpoint :	Standard: factory-set at 80% f. s. other note on order: range 0 ...100% f. s.
Off Setpoint :	Standard : factory-set at 75% f. s. other note on order: range 0 ...100% f. s.
Setpoint Delay :	Standard: none other note on order: range 10 ms...90 s (in steps of 10 ms)



Switching Frequency	: 200 Hz (without setpoint delay)
Temperature Influence	: <±0,3% f. s. / 10 K in compensated range: -10 °C...+80 °C
Electrical Protection	
Isolation Resistance	: 100 MOhm
Short Circuit Proof	: Permanent
EMV - Interference	: Acc. EM 61326
Mechanical Stability	
Vibration	: 10 g RMS (20...2000 Hz)
Shock	: 100 g / 11 ms
Switch Cycles	: >100 x 10 <sup>6</sup>
Temperature Ranges	: -25 °C...+85 °C (Medium) -25 °C...+85 °C (Electronics) -40 °C...+85 °C (Storage)
Electrical Connection	: Electrical plug M 12 x 1 , 5 pins
Process Connection	: G1/4 M, DIN 3852
Materials	
Process Connection	: Stainless steel 1.4305
Housing	: Elastomere PA 6.6
Wetted Parts	: Ceramics Al <sub>2</sub> O <sub>3</sub>
Sealing	: P <sub>N</sub> <100 bar: FKM, P <sub>N</sub> >100 bar NBR
Protection Class	: IP67
Weight	: appr. 100 g

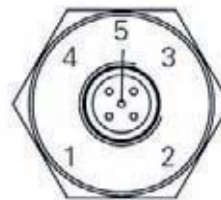
# Type UDS 2 - V2

## Dimensions (in mm)



## Electrical Connection

Standard  
M12 x 1, 5-pin



## Connection Chart

	Model with 2 switching outputs	
	M12 x 1 5-pin	Cable colours (DIN 47100)
Supply +	1	brown
Supply -	3	blue
Switch. output 1	4	black
Switch. output 2	2	white

## Configuration

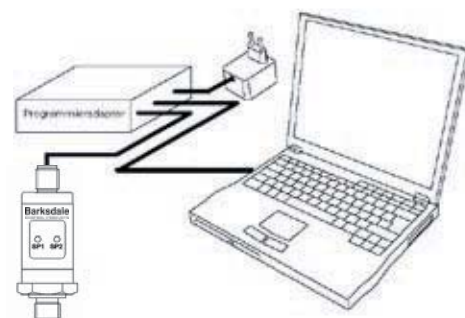
UDS 2 - V2 can be adjusted by a programming adaptor connected with a PC and the configuration software.

Following parameters can be adjusted:

- switching mode (hysteresis- or window-mode)
- Invertation of the switching output signal
- on- and off setpoints
- hysteresis
- switch on- and switch off- delay times

To the programming-adator belong also a power supply, cable and a CD-Rom with the configuration software PS-Set. All cables witch are necessary to connect the UDS 2 - V2 are mounted at the programming-adaptor. The user needs only a Windows-PC with serial interface to run the application.

Alternatively the user can adjust the UDS 2 - V2 with a hand-held terminal.



## Order numbers

Measuring range (bar)	0...10	0...50	0...100	0...200	0...400
2 switching outputs	0429-001	0429-002	0429-003	0429-004	0429-005

## Accessories

Order Number	Description
0499-031	Programming-Kit for UDS2-V2 (incl. power supply and cables)
0499-032	Hand-held programmer for UDS2-V2

08 / 05 UDS 2 - V2 US 01/2

Barksdale Electronic Pressure Switch UDS 2 - V2

Specifications are subject to changes without notice.

In addition to the Electronic Pressure Switches listed in this catalog our product range includes various other instrumentation and control equipment to monitor, measure and control

 **Pressure**

 **Temperature**

 **Level**

 **Flow**

We have the right solution for your measuring tasks.

Just contact us.

# Our Products



08 / 05 UDS 2 - V2 US 01/2

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