



UD700 PRESSURE SWITCHES

A rugged stainless steel pressure control with internal or flush stainless steel diaphragm, an alpha-numeric 4-digit dot-matrix digital display, 2 solid state outputs and 1 scalable analogue output, the UD700 is fully-configurable by keypad with a simple operating menu.

Its uses range across the process and chemical industries and it can be fitted to any of the PCi range of hygienic diaphragm seals for use in situations, such as the food and pharmaceutical industries, where risk of contamination is high.

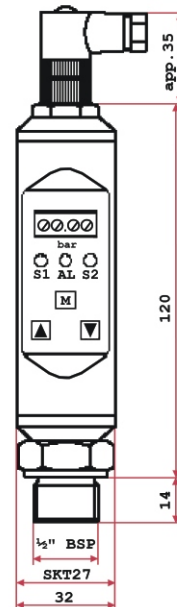


Standard Features

Sensor Element	piezoresistive measuring cell
Accuracy Class	0.5% of full scale
Wetted Parts	stainless steel 316L
Environmental Protection	IP65 plug, IP67 cable
Pressure Connection	1/4" BSP Male
Pressure Range	0 - 1 bar to 0 - 10 bar absolute -1 - 0 bar to 0 - 1000 bar gauge
Temperature Effects	± 0.2% full scale per 10°C
Compensated Range	-10 °C to +70 °C
Operating Temperature	-25 °C to +100 °C (Media)
Operating Display	4-digit dot-matrix 5 mm green display
Analogue Output Signal	4 - 20 mA
Analogue Adjustment	25 - 100% full scale
Solid State Adjustment	0 - 125% full scale
Power Supply	18 to 32 V DC unregulated
Electrical Connection	PG9 incl. 1.5 m cable

Operating Display	
Display	4-digit dot-matrix
Height	5 mm
Display Colour	green
Display Range	-999 to 9999
Display Rate	5/s
Delay	0.0 to 9.9 s - adjustable
Brightness	20 to 100% adjustable

DIMENSIONS (MM)



Output Signal Properties	
Analogue Output	
Current Output	4 to 20 mA
Load	max. $RI = (U_b - 12V) / 20 \text{ mA}$
Load Influence	0.3% / 100 Ohm
Voltage Output	0 to 10 V DC
Rating max.	10mA, short circuit-proof
Solid State Output(s)	
Hysteresis	0 to 125% full scale
Switching Frequency	max. 100 Hz
Contact Rating max.	500 mA, short circuit-proof

Options	
Sensor Element	thin film DMS sensor
Pressure Connection	¼" NPT Male
Operating Display	RS232 or Profibus-DP interface
Mounting	wall mounting stainless steel bracket

PRESSURE RANGES

Available pressure ranges for the UD700 are listed below together with the Proof Pressure (Max.) for the sensor. Ranges marked with an asterisk (*) are available in absolute pressure in addition to gauge pressure.

Range	Max.	Range	Max.	Range	Max.
-1 to 0	2.5	* 0 to 1	3	0 to 100	150
-1 to +1	2.5	* 0 to 2	4	0 to 200	300
* 0 to 0.2	2.5	* 0 to 5	7	0 to 400	600
* 0 to 0.4	2.5	* 0 to 10	15	0 to 600	800
* 0 to 0.6	2.5	0 to 50	75	0 to 800	1000
				0 to 1000	1500



ORDERING MATRIX

Locate the order code for your specification and enter it into the appropriate box. See the previous page for more information about each option.

SENSOR ELEMENT

- A: Standard
- S: Thin film DMS

INTERFACE

- A: Standard
- B: RS232
- C: Profibus-DP

PRESSURE RANGE

- B0: -1 to 0 bar
- B1: -1 to +1 bar
- M0: 0 to 0.2 bar
- M1: 0 to 0.4 bar
- M2: 0 to 0.6 bar
- B9: 0 to 1 bar
- BB: 0 to 2 bar
- BD: 0 to 5 bar
- BE: 0 to 10 bar
- BI: 0 to 50 bar
- BJ: 0 to 100 bar
- BL: 0 to 200 bar
- BM: 0 to 400 bar
- BN: 0 to 600 bar
- BZ: 0 to 800 bar
- BO: 0 to 1000 bar

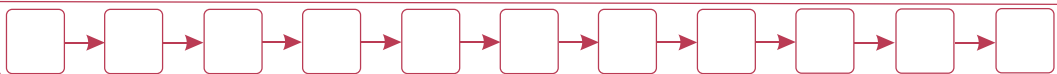
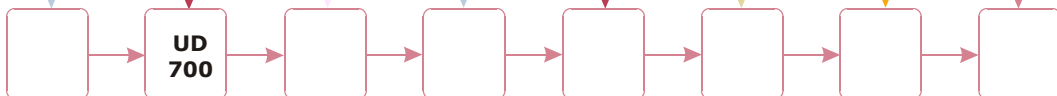
QUANTITY

MODEL NO

PRESSURE CONNECTION
1. ¼" BSP Male
2. ¼" NPT Male

PRESSURE REFERENCE
1: Gauge
2: Absolute

FIXING
1. Standard
2: Wall bracket



Can be fitted with

DS

FS

Select the component you want to have connected to this pressure switch and write in the complete order number in the empty matrix above. Together with the pressure switch order number this completes the specifications for your instrument.