Digital Display and Switching Module

(LED) 4-digit, 2 limit switches, min/max storage

supplied by 4...20 mA current loop of the connected pressure transmitter



Application

Our digital display model DAS is a LED display with 2 integrated limit switches and min/max storage. It is suitable for all pressure transmitters with 0...10 V / 3-wire or 4...20 mA / 2-wire analogue output signals.

When mounted to our pressure transmitters series PTM or DTM, you receive a most successful combination of precise pressure transmitter, intelligent pressure switch, and digital display for direct reading of the operating pressure at the measuring point.

The DAS can comfortably be programmed via two push buttons on the front side (foil-sealed keypad). The integrated software allows the adjustment of the indication span, the decimal point, the indication rate (attenuation) and the switching values. Those parameters are stored in an E2PROM and kept even in case of a power blackout. Both limit switch values can be programmed separately in a range from 0 to 100% of the nominal pressure.

Additional LEDs indicate the current status of the switching outputs. The integrated diagnostic system continuously controls all functions.



Polyamide 6.6 black 47 x 47 x 68 mm (1.85" x 1.85" x 2.68"), turnable approx. 290°

Window Front Hood

Polycarbonate

Display

4-digit LED, height of the digits 7.62 mm (0.3"), resolution 12 bit,

Indication Range

-1999...+9999

Accuracy

± 0.1 % of the span ± 1 digit

Attenuation (Indication Rate)

Adjustable from 0.3 s to 30 s

Hold Function

Min/max memory

Measuring Unit

Standard version with bar-marking on front, but every required measuring unit, corresponding to the calibrated signal of the pressure transmitter that will be connected, can be chosen - please state when ordering

Fitting Position

Any, without restrictions

Auxiliary Energy

Supplied by 4...20 mA current loop of the connected pressure transmitter, voltage drop ≤ 6 V

 $U_{B} = (U_{MU}min...U_{MU}max) + 6 V DC$

U_{MIJ} = operating voltage of the used transmitter

Output Signal

4...20 mA, 2-wire

Electrical Connection

Circular plug connector M 12x1 (5-pin), IP 67, plastic, straight female socket

E²PROM

Temperature Ranges

-25...+85 °C (-13...+185 °F) Operating temperature min/max: Storage temperature min/max:

-40...+85 °C (-40...+185 °F)



Temperature Influence

0.1 %/10 K

Programming

2 push buttons on the front, foil-sealed keypad

Switching Output

2 independent PNP-outputs, maximum load 125 mA, short-circuit proof

Switching Delay

Adjustable from 0 to 100 s

Dimensional data, weights and wiring diagram see back of the page.

Options

- · Angular female socket
- Other electrical connection (for output signal 4...20 mA)
- screwed cable gland with 2 m connection cable (IP 67) or
- plug connector DIN EN 175301-803 (IP 65; only 2-wire connection, only 1 PNP-output possible!)
- Input / output signal 0...10 V DC (power supply 15...36 V DC), 3-wire
 - with round plug connector M 12x1 or optionally
- with cable gland (IP 67) and 2 m connection cable
- Marking with other units, e.g. %, psi, kg/cm²
- · Attachable digital display and switching module model DASA
- suitable for subsequent fitting
- male plug connector (top) and female socket (bottom)
- according to DIN EN 175301-803
- 1 PNP-output
- approx. weight 100 g (0.22 lb)

Ordering Information

Please order the pressure transmitter type series PTM or DTM as advised in our data sheets 9810 ff or 9830 ff and add:

> with attached DAS (optionally: DASA) with specification of any special options.

The DAS will then be preadjusted according to the mounted PTM or DTM.

The special version DASA is also available separately.



Sales and Export South, West, North

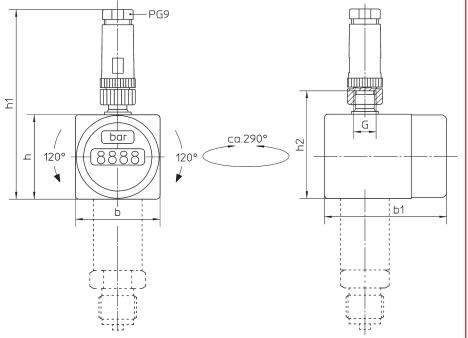
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Dimensional Data and Weight, Pin Assignment

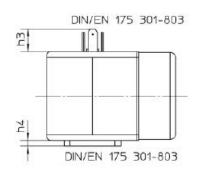


| Pin Assignment | | | | |
|--|------------------------|--|--|--|
| 2-wire system Pin assignment (standard version) | PIN | | | |
| Supply + Supply - | 1 3 | | | |
| Switching point 1 Switching point 2 | 4 5 | | | |
| Ground | via process connection | | | |
| 3-wire system Pin assignment (see special versions 010 V DC) | PIN | | | |
| Supply + Supply - Signal 5 | 1 2 3 | | | |
| Switching point 1 Switching point 2 | 4 5 | | | |
| Ground | via process connection | | | |

| Dimensional Data (mm / inch) and Weight (kg / lb) | | | | | | |
|---|-------------------|--------|-------------------|--------------------|---------------------|---------------------|
| b | b1 | G | h | h1 | h2 | weight (approx.) |
| 47 1.85 | 68 2.68 | M 12x1 | 47 1.85 | 105 4.13 | 60.5 2.38 | 0.14 0.31 |

Special Version Model DASA

Attachable digital display and switching module



| Pin Assignment | | | | | |
|---|---|--|--|--|--|
| 2-wire system Pin assignment (standard version) | Plug connector DIN EN 175 301-803 | | | | |
| Supply + Supply - | 1 2 | | | | |
| Switching output | 3 | | | | |
| Ground | Ground terminal | | | | |

| Dimensional Data (mm / inch) | | | | |
|------------------------------|------------------|--|--|--|
| h3 | h4 | | | |
| 12 0.47 | 3 0.12 | | | |

Available mounted to a measuring instrument, which is equipped with a plug connector according

to DIN EN 17530-803,

e.g. pressure transmitters of the type series PTM..., DTM... and CTM...

or separately for subsequent mounting

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