

Features

- input signal 4-20 mA (e.g. from CLM or ULM)
- 4 1/2 digit LED display
- up to 4 relay-outputs with direct or inversion function
- mounting to front panel (dimension 98 x 48 mm)
- option for isolated analog output
- input and output signals are galvanically separated from power supply 24 VDC



Description

Programmable process controller DMP measures and displays wide range of physical values (level, pressure, flow, temperature, etc.). It is designed as a panelmeter, so its montage is provided onto a front panel cutout. Terminal blocks are on rear side. On the front panel there are 4 buttons for setting up all functions and 4 LEDs for limit indication. All settings are automatically saved in EEPROM memory.

Possible performances:

- DMP 01 - provides linear computation between input signal and displayed value
- DMP 03 - provides arbitrary non-linear computation according to set conversion table (from 2 to 27 points)

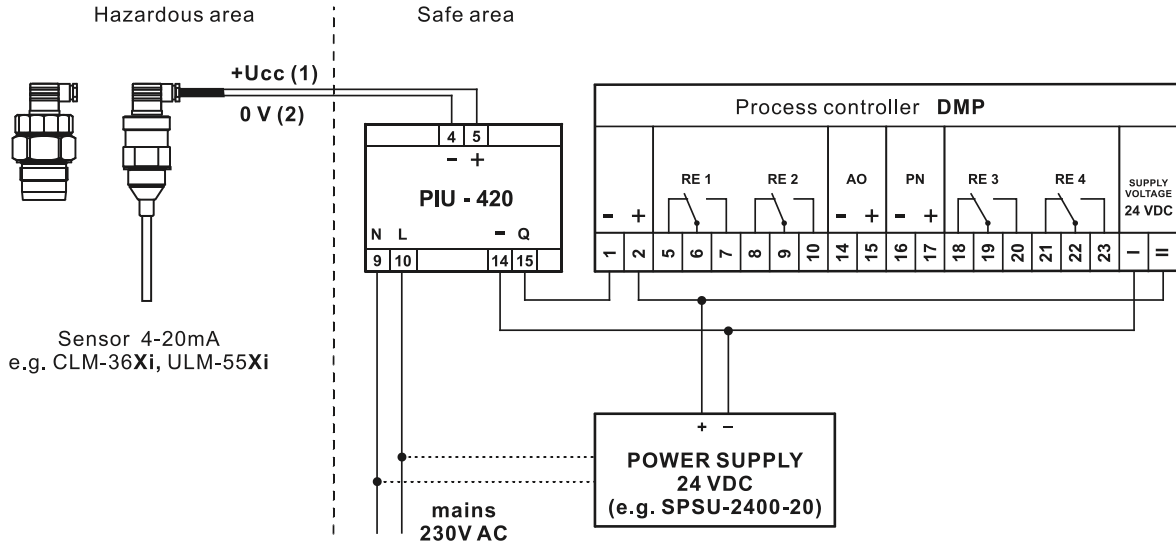
- Possibilities of custom settings**
- borders of scale
 - relay output function
 - hysteresis and time delay of limits

Technical data

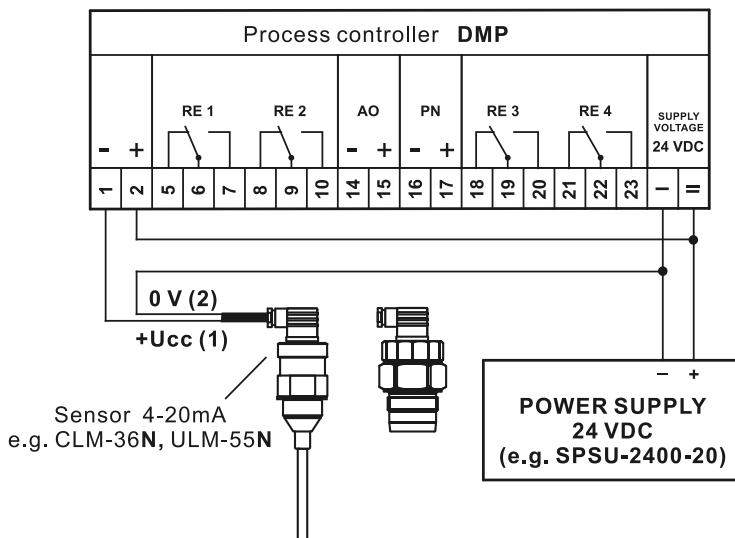
Type	DMP 01	DMP 03
Nominal supply voltage	24 VDC (-15% / +20%)	
Nominal power demand	max. 5 VA	
Number of limit outputs	max. 4	
Analog output	4 ÷ 20 mA (max. 22 mA) or 0 ÷ 10 V (max. 11 V)	
Input resistance	50 Ω	
Numerical resolution	15 bits analog input / 12 bits analog output	
Sampling rate	10 measurements per second / 4 figures per second	
Accuracy	0,05% from FSO +/- 2 digits	
RF field influence	additional error max. 0,1%	
Temperature coefficient	0,01% / °C	
Ambient temperature	0 to +50 °C	
Relay contacts rating	230 VAC, 5A	
Electric strength - input / output	510 VAC / 1 min.	
- power supply / input		
- power supply / output		
Outer dimensions	96 x 48 x 85 mm (w x h x d)	
Required panel cutout	91 x 44 (w x h)	
Protection class - enclosure	IP 40	
- terminals	IP 20	
Max. connecting wire cross-section	2,5 mm ²	
Weight	max. 270 g	
EMC requirements	EN 55011,gr.1, class. A	EN 61000-4-2, -3, -4

Wiring examples

I. Sensor located in explosive area



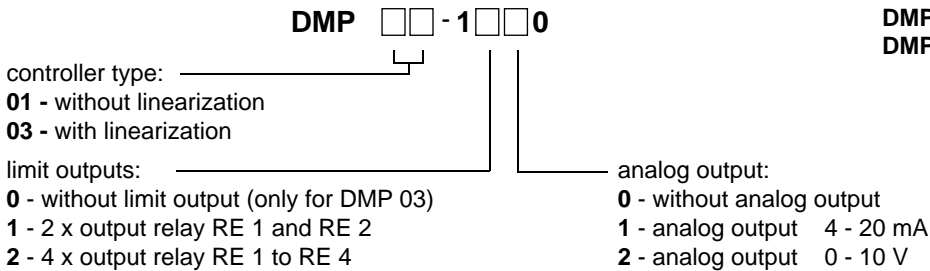
II. Sensor located in safe area



Terminal numbering

- 1, 2 analog input
- 5, 6, 7 relay RE 1
- 8, 9, 10 relay RE 2
- 18, 19, 20 relay RE 3
- 21, 22, 23 relay RE 4
- 14, 15 analog output (AO)
- I, II power supply

Specification system



Example of correct specification

- DMP 01 - 1200 - 4 relays output
- DMP 03 - 1010 - isolated analog output 4-20mA

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