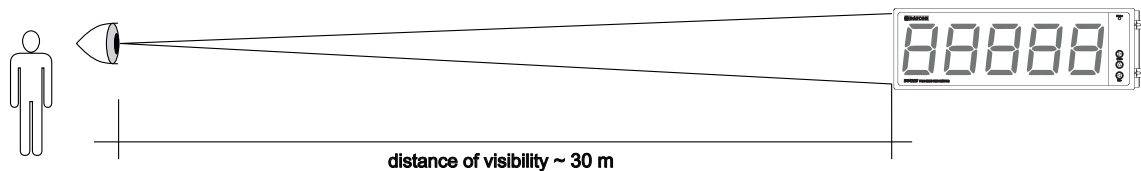


## Process Indicator

## Product features

- 0-20 mA / 4-20 mA / 0-10 V / 2-10 V / 0-5 V inputs
- large, 5 digit LED display (57 mm character height)
- 0.03% accuracy
- 0-20 mA / 4-20 mA, galvanic isolated output (optional)
- 2 limit relay output (optional)
- RS232 / RS485 communication, Modbus RTU protocol (optional)
- 24 VDC  $\pm 10\%$  or 230 V AC/DC  $\pm 10\%$  power supply
- 288  $\times$  96 mm panel instrument
- Protection IP 52 (front), IP 20 (rear)



The **DT4227 ... Process Indicator** enable linear process variables (0-20 mA / 4-20 mA / 0-10 V / 2-10 V / 0-5 V) to be displayed in engineering units on the control panel. Any optional display range can be assigned to the input signal range. Large 5 digit, 57 mm character height LED display make process value easily visible at a 30 m distance.

The instrument is available with the following output options:

- 2 normally open relay contacts (SPST) for limit switching or for simple control tasks
- 0-20 mA / 4-20 mA galvanic isolated scalable current output \*
- RS232 / RS485 galvanic isolated communication output with MODBUS RTU slave protocol \*
- transmitter supply galvanic isolated 15 VDC 20 mA\*

\* either analogue or communication or transmitter supply option can be implemented at the same time

The functional parameters can be set by push-buttons on the front panel of the device, through a simple menu system: input selection, averaging of input signals, scaling, display frequency, limit values, limit operating modes, scaling the analogue output, etc. The settings are protected by a two-level password against unauthorised manipulation.

The instruments has two power supply versions: 24 VDC  $\pm 10\%$  (DT4227 ...) or 230 V AC/DC  $\pm 10\%$  (DT4227 ... PS).

The DT4227 ... is housed in a DIN standard 288  $\times$  96 mm ABS case with IP 52 protection from the front and IP 20 protection from the back side, for installation on the control panel.

**Safety data:**

The connection terminals of the supply voltages are isolated from each other, the isolation is in compliance with the standard EN 61010-1, taking into consideration the following:

Pollution level:	2
Measurement category:	II

**Input parameters:**

Input signal:	DC current or DC voltage
Measurement range:	0-20 mA / 4-20 mA / 0-10 V / 2-10 V / 0-5 V
Overrange:	±50 mA (current input), ±200 V (voltage input)
Sampling:	12 measurement / sec.
Number of averaged samples:	1 / 2 / 4 / 8 / 16 / 32 (selectable)
Error of displayed value:	< 0.03% @ Ta = 23 °C ± 2 °C

**Output parameters:**

**Analogue output (optional):**

Output type:	1 active or passive DC current (scalable)
Range:	0-20 mA / 4-20 mA
Burden:	500 ohm (max.)
Error:	< 0.03% @ Ta = 23 °C ± 2 °C

**Limit outputs (optional):**

Outputs:	2 NO SPST relays
Contact rating:	30 VDC, 3 ADC / 240 VAC, 3 AAC

**Transmitter supply (optional):**

Output voltage:	15 VDC ±10% @ 30 mA, 16 VDC ±10% @ 4 mA
Output current:	30 mA max.
Isolation voltage:	0.5 kV

**Communication interface (optional):**

Type:	RS232 or RS485 (isolated)
Protocol:	MODBUS RTU slave
Baud rate:	300 / 600 / 1200 / 2400 / 4800 / 9600 Baud

**Display:**

Display:	5 digit (+values), 4 digit (-values), negative sign, decimal point
Display unit:	5 digit LED
Character height:	57 mm
Display color:	red

**Manual controls:**

Manual controls:	3 membrane push-buttons on the front cover
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**Power supply:**

Supply voltage:	24 VDC ±10% (DT4227 ...) 230 V AC/DC ±10% (DT4227 ... PS)
Consumption:	3.5 W / 3 VA

**Ambient conditions:**

Operating temperature range:	0 - +60 °C (-20 - +60 °C for customer request)
Relative humidity:	90% (max., non condensing)
Place of installation:	cabinet

**Electromagnetic compatibility (EMC)**

**accordance with the standard EN 61326-1**

Immunity:	industrial area
Noise emission:	Group 1, Class B

**General data:**

Housing:	panel instrument
Connection:	plug-in screw terminal / push-in direct connection
Connection cable:	0.25-1.5 mm <sup>2</sup> (max.)
Dimensions:	288 × 96 × 78 mm (width × height × depth)
Panel cut off:	282 × 92 mm (width × height)
Weight:	0.7 kg
Protection:	IP 52 (front), IP 20 (rear)

Detailed information see in operating instructions. The Manufacturer maintains the right to change the technical data!