

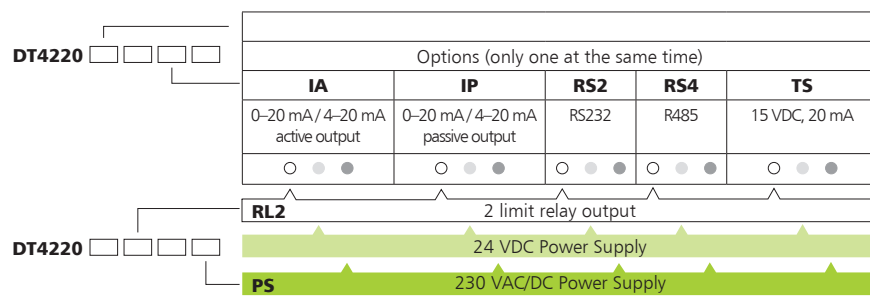
Process Indicator

Product features

- 0-20 mA / 4-20 mA / 0-10 V / 2-10 V / 0-5 V inputs
- 5 digit LED display, 14.2 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)
- 96 × 48 mm panel instrument
- 24 VDC ±10% or 230 V AC/DC ±10% power supply
- Protection IP65 (front), IP30 (rear)



Type designation



The **DT4220 ... 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, 14.2 mm character height LED display make process value easily visible at a 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 ±10% (DT4220 ...) or 230 V AC/DC ±10% (DT4220 ...PS).

The DT4220 ... is housed in a DIN standard 96 × 48 mm ABS case with IP65 protection from the front and IP30 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:	600 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, 14.2 mm character height

Manual controls:

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

Power supply:	24 VDC ±10% (DT4220 ...) 230 V AC/DC ±10% (DT4220 ...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

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 ²
Dimensions / weight:	96 × 48 × 50 mm (width × height × depth) / 0.15 kg
Protection:	IP 65 (front), IP 30 (rear)

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