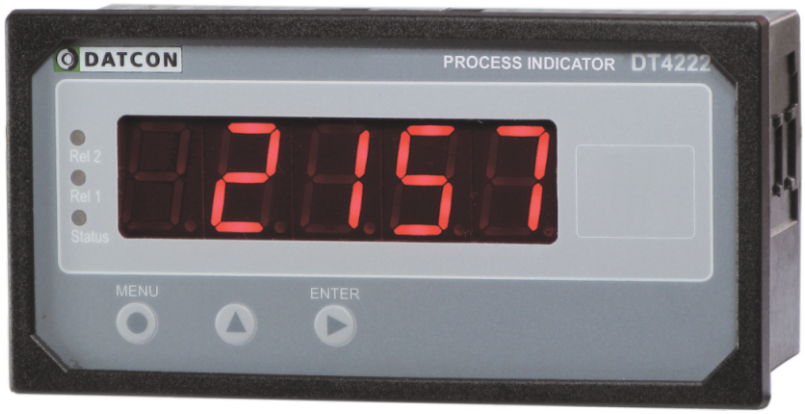
Process Indicator

Product features

- 0-20 mA / 4-20 mA / 0-10 V / 2-10 V / 0-5 V inputs
- 5 digit LED display, 20,4 mm character height
- 0,03% accurary
- 0-20 mA / 4-20 mA, galvanic isolated output (optional)
- 2 limit relay output (optional)
- RS232 / RS485 communication, Modbus RTU protocol (optional)
- 144 x 72 mm panel instrument
- 18-35 V AC/DC or 180-250 V AC/DC power supply
- Protection IP65 (front), IP30 (rear)



Type Designation

DT4222 □□□

Options (only one at the same time)				
IA	**IP**	**RS2**	**RS4**	**TS**
0-20 mA / 4-20 mA active output	0-20 mA / 4-20 mA passive output	RS232	RS485	15 VDC, 20 mA
○ ● ●	○ ● ●	○ ● ●	○ ● ●	○ ● ●

RL2 2 limit relay output

DT4222 □□□

18-35 V AC/DC Power Supply

PS 180-250 V AC/DC Power Supply

The **DT4222 ... 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, 20,3 mm height LED display (colors: red, yellow, green, blue (optional)) 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: 18-35 V AC/DC (DT4222 ...) or 180-250 V AC/DC (DT4222 ...PS).
The **DT4222 ...** is housed in a DIN standard 138 x 68 mm ABS case with IP65 protection from the front and IP30 protection from the back side, for installation on the control panel.

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Technical specification

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, 14,2 mm character height
Display colors:	red, yellow, green, blue (optional)
Manual controls:	
Manual controls:	3 membrane push-buttons on the front cover
Power supply:	
Power supply:	18-35 V AC/DC (DT4222 ...) 180-250 V AC/DC (DT4222 ...PS)
Consumption:	3,5 W / 6 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 61326:2000:	
Immunity:	-B- criterion
Noise emission:	-A- class
General data:	
Housing:	panel instrument
Connection:	plug-in screw terminal / push-in direct connection
Connection cable:	0,25-1,5 mm^2
Dimensions / weight:	144 x 72 x 75 mm (width x height x depth) / 0,4 kg
Protection:	IP 65 (front), IP 30 (rear)

Detailed information see in operating instuctions. The Manufacturer maintans the right to change the technical data!

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