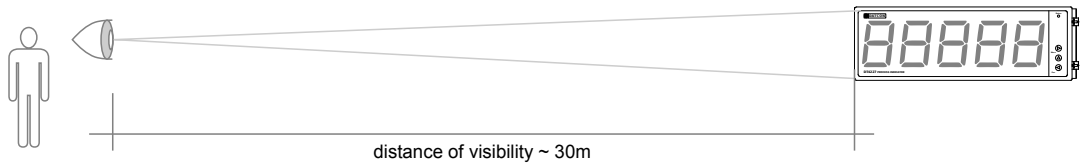
Product features

- large, 5 digit LED display (57 mm character height)
- display of signed numbers
- display of messages
- adjustable brightness
- flashing function
- readable even at a 30 m distance
- RS485 communication
- MODBUS RTU or ASCII protocol
- menu driven setting, via front panel switches
- 20-50 VDC, 24-35 VAC or
- 150-250 V AC/DC supply
- 288 x 96 mm front panel dimensions



A **DT4227 RS4 ... Process Indicator** able to display process data as: 5 digit signed numeric values or 5 character messages with limited character set sent via RS485 communication interface.
The red 57 mm character height LED display, make process variables easily visible even at a 30 m distance. Multiple indicators can be connected to the master (e.g. PLC, DCS) in multi-drop configuration. The communication protocol is MODBUS RTU or ASCII. All of the communication parameters can be set, the maximum communication speed is 19.200 Baud.
The instrument has two different display mode:

- display signed numeric values in the -9999…+99999 range, with leading null(s) disable function. The displayed process value can be flashed to sign limit override or alarm state.
- display message with a limited character set (e.g. Start, Stop, End, Error, etc.). The characters can be flashed separately.

Easy on-site configuration through the front panel switches is an advantage of the instrument. Two level password protects the settings from unauthorised changes.
The DT4227 housed in an IEC standard 288 x 96 ABS panel mount case.
The instrument available with two power supply version:

- 20-50 VDC, 24-35 VAC (DT4227 RS4) or
- 150-250 V AC/DC (DT4227 RS4 PS)

A DT4227... Process Indicator family has two more member:
DT4227 UI Process Indicator with 0/4…20 mA. 0/2…10 V analogue inputs
DT4227 Pt Process Indicator with Pt100, Pt1000, resistor, potentiometer inputs.

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Technical specification

Display attributes		
Display:	5 digit 7 segment LED, with decimal point	
Character height:	57 mm	
Display color, brightness:	red, brightness adjustable between 10% - 100% in increments of 10%	
Numeric display mode:	signed numeric values in -9 999–99 999 range	
Message display mode:	5 ASCII characters with limited character set	
Display blinking:	numeric mode: blinking all of the digit message mode: blinking of single characters	
Display refresh:	automatically after received a MODBUS frame	
Refresh frequency:	100 Hz	
Status indicator:	yellow LED (indication of successful MODBUS communication)	
Communication interface		
Type:	RS485, isolated from power supply	
Isolation voltage:	0.5 kV	
External termination resistance:	120 ohm (for A2 and B2 therminals)	
Baud rate:	2400 / 4800 / 9600 / 14400 / 19200 Baud	
Parity:	even / odd / none	
Protocol:	MODBUS RTU slave / MODBUS ASCII slave	
Address:	1-255 (factory setting: 0)	
Implemented commands:	3 (read of registers), 16 (write of registers)	
Communication timeout:	off / on (adjustable between 1-255 sec)	
Power supply		
Supply voltage, power consumption:	20-50 VDC, 24-35 VAC @ 2.7 W / 4.1 VA 150-250 V AC/DC @ 5.8 VA / 3.3 W	DT4227 RS4 DT4227 RS4 PS
Ambient conditions		
Operating temperature range:	0-60 °C (-20 - +60 °C on request)	
Storage temperature range:	-25 - +70 °C	
Climatic conditions:	EN 60654-1, class B2	
Relative humidity:	90% (max., non-condensing)	
Place of installation:	cabinet	
Electromagnetic compatibility (EMC)		
Emission:		
Accordance with the standard EN 61326-1:2011		
Conducted:	EN 55011:2010 Limits for Class A equipments	
Radiated:	EN 55011:2010 Limits for Class A equipments	
Immunity:		
Accordance with the standard EN 61326-1:2007 (Table 2.)		
ESD:	4 kV/8 kV contact / air: -B- criteria	
BURST:	2 kV/1 kV power / signal: -B- criteria	
SURGE:	1 kV: -B- criteria	
Conducted RF:	3 Veff: -A- criteria	
General data		
Housing:	panel instrument	
Dimensions:	288 x 96 x 78 mm (width x height x depth)	
Panel cutout:	282 x 92 mm (width x height)	
Weight:	0.7 kg	
Connection cable:	max. 1.5 mm^2	
Connection:	2 pole and 4 pole plug-in screw terminal	
Protection:	IP 52 front / IP20 back	

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

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