Product features

- Display in engineering units
- 4 1/2 digit LCD, 20.5 mm character height
- 4-20 mA loop powered
- Min. / Max. values detection
- 2 isolated limit outputs
- 0.03% accuracy, ±20 ppm / °C
- Easy on-site configuration
- DT9000: IP 65
  DT9002: IP 65 front
  IP 30 rear

The **DT9000 N, DT9002 N Process Indicators** enable linear process variables to be displayed in engineering units. Two isolated outputs are available with different operating modes for limit signaling or for simple control purposes. Both indicators are looppowered from 4-20 mA signals, dropping less than 2 V at 20 mA.
Large 4 ½-digit, 20.5 mm height liquid crystal display make process variables easily visible at a distance.
A label defining the appropriate engineering unit is attached to the right of the display. Both indicators can be set up to reverse the display „direction" (i.e. to produce a decreasing displayed value for a rising signal input) and to display a decimal point if required.
Easy on-site configuration through the front panel keypad is a major advantage of the microcontroller-based technology.
The settings of zero and full-scale values are non-interactive, making the configuration process rapid and simple.
The configuration parameters: scaling, decimal point position, display refresh rate, signal filtering, limit modes, limit values, etc. are stored in EEPROM. A two level password protects the settings from unauthorised changes.
The DT9000 N is housed in a moulded polycarbonate case which is dust-tight and houseproof to IP 65 to allow for installation in the field or on the control panel.
The DT9002 N is housed in a DIN standard 144 × 72 mm ABS case with IP 65 protection from the front and IP 30 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	
Characteristics:	linear	
Measurement range:	4-20 mA	
Overrange:	3.5-20.5 mA	
Sampling:	15 measurement / sec.	
Number of averaged samples:	1; 2; 4; 8; 16; 32 (selectable)	
On input terminals:	< 2.2 V @ I= 4 mA, < 2 V @ I= 20 mA	
Accuracy:	0.02% @ Ta = 23 °C ±2 °C 0.05% @ -20 °C < Ta < +60 °C	
Display / Manual controls:		
Display:	4 1/2 digit, 7 segments, decimal point and negative sign	
Display unit:	LCD, 20.5 mm character height	
Range:	-19999 - +19999	
Display value assigned to 4 mA:	anywhere within the range	
Display value assigned to 20 mA:	anywhere within the range	
Decimal point:	its position can be selected, or it can be switched off	
Display refreshing time:	0.1; 0.3; 0.5; 1.0; 2.0 sec. (selectable)	
Manual controls:	3 membrane push-buttons on the front cover	
Power supply:		
Power supply:	4-20 mA loop-powered, reverse polarity protected	
Output parameters:		
Output:	2 limit outputs	
Output type:	optically isolated passive switching transistor	
Load rating:	30 V, 30 mA max.	
Refreshing time:	same as the display refreshing time	
Hysteresis:	0 - ±999	
Electromagnetic compatibility (EMC) accordance with the standard EN 61326-1		
Immunity:	Industrial area	
Noise emission:	Group 1, Class B	
General data:		
Housing:	DT9000 N: moulded polycarbonate case, installable as a field or panel	DT9002: DIN standard ABS case, installable as a panel instrument
Connection:	DT9000 N: IP 65 cable entry, push-in direct connection	DT9002: push-in direct connection
Connection cable:	0.25-1.5 mm^2 (max.)	
Dimensions:	DT9000 N: 160 × 80 × 90 mm (width × height × depth)	DT9002: 144 × 72 × 75 mm (width × height × depth)
Weight:	0.7 kg (DT9000 N)	0.4 kg (DT9002 N)
Protection:	IP 65 (DT9000 N)	IP 65 (front), IP 30 (rear) (DT9002 N)

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

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