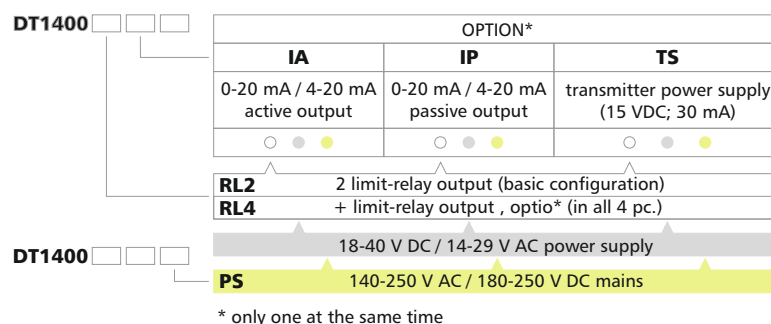


Product features

- 0-20 mA / 4-20 mA / 0-10 V / 2-10 V / 0-5 V inputs
- 2 / 4 x limit-relay outputs
- Process indicator function
- 5 digit LED display, 7.6 mm character height
- Menu based configuration
- 0-20 mA / 4-20 mA isolated output
- Transmitter supply
- 18–40 V DC / 14–29 V AC power supply or 140–250 V AC / 180–250 V DC mains
- TS-35 rail mounting, 45 mm width



Type Designation



The **DT1400 ... Limit switch** compare the 0-20 mA / 4-20 mA / 0-10 V / 2-10 V / 0-5 V input signal with the set values. When the input signal exceed one of the set values the instrument activates the corresponding SPDT relay contact.

The **DT1400 ... Limit switch** is also a process indicator and enable linear process variable to be displayed in engineering unit on its 5 digit LED display.

The instrument is available with the following output options (2 limit-relays are standard, beyond that only one option at the same time):

! +2 normally open relay contacts (SPST) for limit switching or for simple control tasks (In this case 4 limit-relay contacts are in the DT1400.)

! 0-20 mA / 4-20 mA galvanic isolated, scalable, active or passive current output

! 15 VDC, 30 mA, galvanic isolated power supply for two wire 4-20 mA transmitter

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, hysteresis, scaling the analogue output, etc. The settings are protected by a two-level password against unauthorised manipulation.

The **DT1400 ...** has two power supply versions: 18-40 V AC/DC (DT1400 ...) or 180-250 V AC/DC (DT1400 ...PS).

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 / 64 (selectable)
Error of displayed value : $< 0.02\%$ @ $T_a = 23^\circ\text{C} \pm 2^\circ\text{C}$
Temperature coefficient: ± 40 ppm / $^\circ\text{C}$ (max.)

Output parameters:

Limit outputs (optional):
Outputs: 2 NO SPST relays (standard), + 2 NO SPST relays (option)
Contact rating: 30 VDC, 3 ADC / 240 VAC, 3 AAC

Analogue output (optional):

Output type: 1 active or passive DC current (scalable)
Range: 0-20 mA / 4-20 mA
Burden: 500 ohm (max.)
Error: $< 0.03\%$ @ $T_a = 23^\circ\text{C} \pm 2^\circ\text{C}$

Transmitter supply (option):

Transmitter supply: 15 VDC, 30 mA

Display:

Display: 5 digit (+values), 4 digit (-values), negative sign, decimal point
Display unit: 5 digit LED, 7.6 mm character height
4 limit output LED

Manual controls:

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

Power supply:

Power supply: 18-40 V AC/DC (DT1400 ...) 180-250 V AC/DC (DT1400 ...PS)
Consumption: 3.5 W / 3 VA

Ambient conditions:

Operating temperature range: $0-50^\circ\text{C}$ ($-20-50^\circ\text{C}$ for customer request)
Relative humidity: 90% (max., non-condensing)
Place of installation: cabinet
Mounting position: vertical (horizontal rail position)

Electromagnetic compatibility

(EMC) accordance with the standard EN 61326:2000:

Immunity: -A- criterion
Noise emission: -A- class

General data:

Housing: terminal assembly box, rail mounting on TS-35 rail, material: polyamide PA6.6
Connection: screw terminal
Connection cable: 0.25-2.5 mm²
Dimensions / weight: 45 x 99 x 115 mm (width x height x depth) / 0.2 kg
Protection: IP 20

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