

Loop powered AC current and AC voltage transmitters

Product features

- 0-1 AAC / 0-5 AAC / 0-10 AAC / 0-15 AAC current input measurement range,
- 0-125 VAC / 0-250 VAC / 0-450 VAC voltage input measuring range
- true root mean squaring (TRMS) values
- Overvoltage category: CAT III
- two wire 4-20 mA current loop transmitters
- 0.2% accuracy class
- TS-35 rail mounting, 17.5 or 22.5 mm width
- Full EN 60688 compliance



Type designation

DT1622	□	RANGE						
		I1	I5	I10	I15	U125	U250	U450
INPUT		0-1 AAC	0-5 AAC	0-10 AAC	0-15 AAC			
						0-125 VAC	0-250 VAC	0-450 VAC

The DT1622 ... Loop powered AC Current-, AC Voltage Transmitters provide an output signal (4-20 mA) proportionally with the TRMS value of the input AC-current, AC-voltage signal.

The device is two wire transmitters without power supply. They are loop powered, the energy for operation charged from 4-20 mA current loop. The measured input is galvanic isolated from power network with wide frequency transformer.

The measure input compliance for overvoltage category CAT III.

The DT1622 I loop powered AC current transmitter available of range: 0-1 AAC / 0-5 AAC / 0-10 AAC / 0-15 AAC. The DT1622 U loop powered AC voltage transmitter available of range: 0-125 VAC / 0-250 VAC / 0-450 VAC. The over limiting of DT1622 U is 20% of the nominal value.

The DT1622 I build in 17.5 mm wide housing and DT1622 U build in 22.5 mm wide housing. The housing is mounting of TS-35 rail.

The transmitters are compliance for according EN 60688.

Safety data:

The connections terminal of the input and outputs are galvanically isolated from each other. The isolation in compliance with the standard EN 61010-1, taking into consideration the following:

Pollution level: 2
 Overvoltage group: CAT III

Input parameters:

Input voltage: see the table on the previous page
 Input current: see the table on the previous page
 Method of measure: TRMS
 Long-term overdrive rating: $2 \times I, 1.2 \times U, 500 \text{ V (max.)}$
 Short-term (1 sec.) overdrive rating: $20 \times I, 100 \text{ A (max.)}$
 Consumption of input: 0.25 VA (max.)
 Frequency range: 40-400 Hz

Output parameters:

Output current: 4-20 mA
 Load: 500 ohm (max.)
 Overvoltage protection: 35 V (limited)
 Overcurrent protection: 24 mA (limited)
 Measured time: 500 ms (10-90%)
 Accuracy: 0.2% (max.)
 Temperature coefficient: 85 ppm / °C (0-60 °C)
 Frequency response: 0.3% max. (40-400 Hz)
 Supply voltage - effect: practically zero
 Loading - effect: practically zero

Power supply:

Supply voltage: 4-20 mA loop (U = 12-33 VDC)

Ambient conditions:

Operating temperature range: 0-60 °C
 Relative humidity: 90% (max., non-condensing)
 Place of installation: cabinet
 Installation: vertical (mounting of horizontal rail)

**Electromagnetic compatibility (EMC):
 in accordance with the standard EN 61326-1**

Immunity: industrial area
 Noise emission: Group 1, Class B

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: DT1622 I ... : 17.5 × 104 × 115 mm (width × height × depth)
 DT1622 U ... : 22.5 × 104 × 115 mm (width × height × depth)
 Weight: DT1622 I ... : 0.060 kg
 DT1622 U ... : 0.080 kg
 Protection: IP 20

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