

# ISOLATION AMPLIFIER TR225



- ❑ Isolating amplifier for the conversion of standard signals with galvanic isolation between input, output and supply voltage
- ❑ Plastic housing for mounting on 35 mm standard profile rail in accordance with EN 50022

For converting standard signals, with galvanic isolation between input, output and supply voltage. Built-in supply voltage for supplying a two-wire transmitter. A voltage signal 0...10 V and a current signal 0/4...20 mA are simultaneously available as output signals.

Both output signals are referenced to the common negative pole.

**ACCURACY / ERROR LIMIT:**

Tolerance:  $\pm 0,2 \%$   
 Temperature drift:  $\pm 0,2 \%$  / 10 K

**TECHNICAL SPECIFICATIONS:**

Input: 0...1 V, 0...10 V, 0/4...20 mA  
 Supply voltage: approx. 18 Vdc, unstabilized, max. 25 mA  
 Voltage output: 0...10 V, short-circuit proof, max. 5 mA  
 Current output: 0/4...20 mA, max. load 500  $\Omega$   
 Galvanic isolation: between input-output mains 230 Vac, test voltage 4 kV, 50 Hz

**PHYSICAL:**

Display: Operating indicator green, overdrive or sensor break red  
 Casing: Polyamide gray, for mounting on a 35 mm standard profile rail according to EN 50022  
 Dimensions: 22.5 x 99 x 110 mm (W x H x D)  
 Protection class: IP 20 according to EN 60529  
 Connections: Screw terminals up to 2.5 mm<sup>2</sup>  
 Ambient temperature: -10 to 50 °C  
 Rel. humidity: 0 ... 85%, no condensation  
 Weight: Approx. 160 g

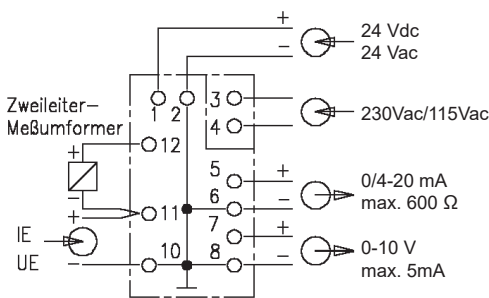
**ELECTRONIC:**

Power supply: 230 Vac / 115 Vac via input. Transformer or 24 Vac or 24 Vdc  
 Power consumption: Approx. 1.5 VA  
 Test sockets: 2 mm  $\varnothing$  for measuring the output current, internal resistance of the current meter max. 10  $\Omega$   
 Voltage output: 0 ... 10 V, short circuit proof, max. 5 mA  
 Current output: 0/4 ... 20 mA, max. Load 600  $\Omega$   
 Max. Output current: Approx. 25 mA for overdrive or sensor break, indicated by red LED

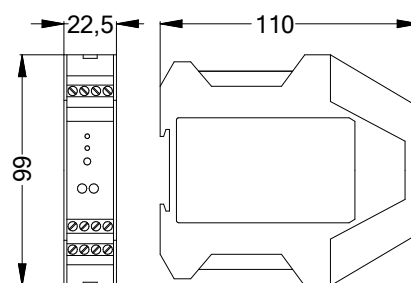
**CONFORMITY:**

EMC: EN 61000-6-2, EN 61000-6-3, CE-mark  
 RoHS: according RoHS-directive 2011/65/EU

**Connections**



**Dimensions (mm) serie 225**



Item no.

**ISOLATION AMPLIFIER TR225**

**5535**

with galvanic isolation between input-output network

Input: **Customer-specific presetting required!**

Supply voltage: approx. 18 Vdc, non-stabilized

Output: 0...10 V and 0/4...20 mA

Supply voltage: 230/115 Vac, 24 Vac or 24 Vdc

**SURCHARGE**

**Supply Voltage 24 Vac**

**55001**