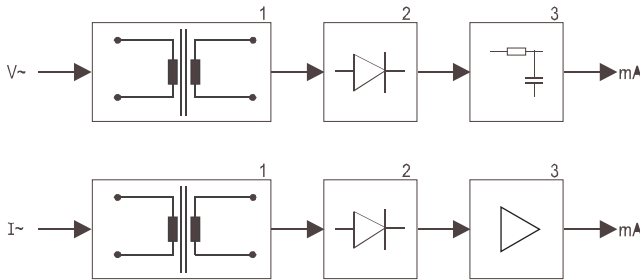
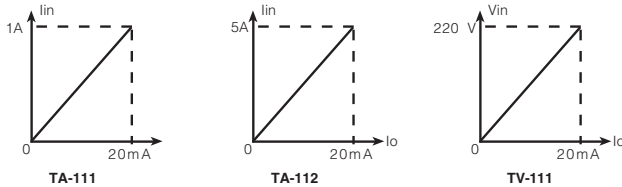
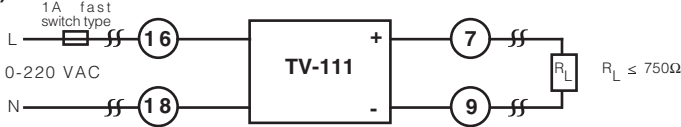
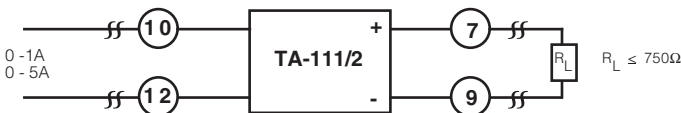


General

Transducers convert electrical signal to the analog signal. They are used in control and display equipments. TA-111/2 current transducer and TV-111 voltage transducers are self-powered. Supply voltage is not applied. Output current is 0-20 mA.



Transformer connected with input circuit of TA-111/2 and TV-111 transducer provides galvanic isolated between input signal and output signal (1). Input signal is rectified by rectifier (2) and filtered by filter unit in voltage transducer, by opamp in current transducer.

**Connection Diagram :****1) TV-111****2) TA-111/2**

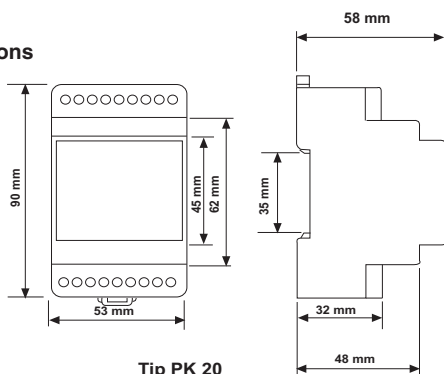
* The cable cross-sections of the cables for the current input connections of TA-111/2 must be at least 2,5mm².

Adjustment and Calibration

Output signal can be adjusted by means of trimpot situated in the front plate. (TA -111/2 3rd terminal, TV-111 6th terminal.)

Caution: Alternative voltage generator (for TV-111), current generator (for TA-111/2) and DC ammeter having high accuracy are required for calibration and adjustments. The adjustments without having these equipments can effect the accuracy of device. The device is worked 15 minutes before you adjust and the ambient temperature must be 25°C.

Note: TA-111/2 and TV-111 transducer RMS calibrated by sinus wave form, measure sinusoidal arithmetic average.

Dimensions**Precautions For Installation and Safe Use:**

- Failure to follow those instructions will result in death or serious injury.
- Disconnect all power before working on equipment.
- When the device connected to the network, do not remove the back panel
- Do not try to clean the device with solvent or the like. Only clean the device with dried cloth.
- Verify correct terminal connections when wiring.
- Electrical equipment should be serviced only by your component seller.
- Only for rack panel mounting.
- The fuse should be used F type and current boundary value must be 6A
- No responsibility is assured by ENTES A.S or any of its subsidiaries for any consequences arising out of the use of this material.

Warning :

- A switch or circuit breaker must be connected between the network and the measuring input of device.
- Connected switch or circuit breaker must be in close proximity to the device.
- Connected switch or circuit breaker must be marked as the disconnecting device for the equipment.

Technical Specifications**Electrical Specifications**

Measuring Input : 0-1A AC (TA-111)
0-5A AC (TA-112)
0-220V AC (TV-111)

Frequency : 50 Hz.

Wave form

Power Consumption : 4 VA (Io=20mA için)

Overload Capacity;

Current Transducer : 1,5xIn (continuous)

20xIn (1s.)

In=1A AC (TA-111)

In= 5A AC (TA-112)

Voltage Transducer : 1,2xUn (continuous)

2xUn (1s.) (TV-111)

Un=220V AC

Output Signal : 0-20mA DC

Linear Output Range : (0,05...1.1)xIn (TA-111/2)

(0,2...1.1)xUn (TV-111)

Load (RL) : ≤ 750 Ω

Transmission Error : ≤ %0,5 FS

Response Time : ≤ 300msn

Ripple : ≤ %0,9 p-p

Reference Conditions

Input : (0,05...1)xIn (TA-111/2)

(0,2...1)xUn (TV-111)

Load Resistance : 0,5xRL max

Frequency : ± %2

Form Factor : 1,111

Ambient Temperature : 24°C ± 2K

Additional Error : ≤ ± %0,25

(1,1xIn) (TA-111/2)

≤ ± 0,25

(1,1xUn) (TV-111)

Temperature Influence : ≤ % 0,3 / 10K, 24°C

Response Time : ≤ 250 msn.

Warming Time

: approx. 15 min.

Test Voltage

Between Input-Output : 4kV during 1 min.

Impulse Voltage, : 5kV, 1,2/50μs, 0,5Ws

Climatic Conditions

Operating Temperature : -5°C, ... +50°C

Storage Temperature : -20°C, ... +70°C

Humidity : ≤ %75

Mechanical Specification

Equipment Protection : Double Insulation (□)

Degree of Protection : IP-40 (front panel)

Connection : Rail-mounted

Dimension : PK 20

Weight : 0,3kg (TA-111/2)

0,25kg (TV-111)

Quantity in 1 package : 16 Adet