

Power Measuring Transducer freely configurable

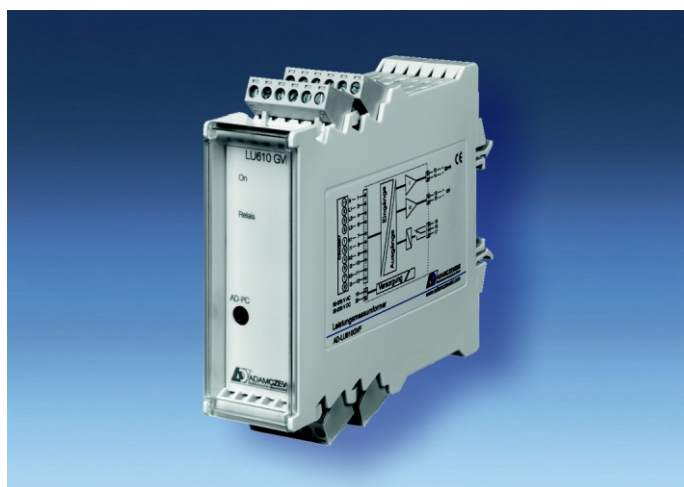
AD-LU 610 GVF

Description

The power signal transformer AD-LU 610 GVF is a programmable transformer for all displays in the power area. All known measuring tasks such as active power, reactive power, apparent power, voltages, currents, frequency and power factors can be freely defined onto the outputs. The measuring ranges are also programmable in a wide scaling. Filter functions, which can be individually parameterized, complete the adjusting possibilities of the measuring task.

The measuring transformer is programmed comfortably via PC or laptop. The relevant parameterization software AD-Studio and the programming interface cable are available as option.

Customer specific works settings are possible on request.



Application

Acquisition, transformation and display of all measuring tasks in the power range. Instantaneous power and energy meter united in one freely programmable device.

Specification

input alternating current

input circuit	1A and 5A
input resistance	10 mOhm
continuous capacity	10A
shock load	100A

input alternating voltage

input range	max. 500 V/ $\sqrt{3}$
power consumption	each phase 0,5 mA
permanent load	$1,2x U_{nenn}$
shock load	$2x U_{nenn}$

connection technique

measured variables	active-, reactive-, apparent
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phases
connection
load

power, frequency, current and voltage each phase,
power factor
1/3 phases
2/3/4-wire system
symmetric or unsymmetric load

analogous output current

output range
no load voltage
current limiting
output load

max. 20mA, freely configurable
< 12V
ca. 24mA
max. 500 Ohm

analogous output voltage

output range
output load

max. 10V, freely configurable
> 2 kOhm

contact output (relay)

contact rating
operating principle

max. 250VAC. 2A, 100VA
freely configurable
normally open- or
normally closed contact
- as limiting value, 1 min, 1 max
- as S0-interface
- as energy flow direction
freely configurable
(default value 250 ms)

damping factor and
pulse width

accuracy

linearity error for active-, reactive- and apparent power in
3- and 4-wire system < 0,5% (reference conditions)
influence of temperature ca. 0,3% over 50K
input frequency influence ca. 0,2%, 40-60Hz
phase angle influence of input current and voltage
ca. 0,2% $O_{(cap.)} \cdot 1 \dots 0_{(ind.)}$
warming up period ca. 15 min.

supply

power-supply 20-253 VDC or 50-253 VAC
power consumption ca. 4,6VA or 2,4W

housing

dimension (WxHxD) 33x110x128mm
type of protection IP 20 (EN 60529)
terminal cross-section max. 2,5 mm²
connection method terminal block for easy wiring
manner of fastening DIN rail 35mm (EN 50022)
weight ca. 200 gr.

environmental conditions

ambient temperature 0...+50°C

galvanic separation, test voltage

input/output 4 kV RMS, 1 Min.
input/output/supply 4 kV RMS, 1Min,

EMC

product family standard EN 61326
emitted interference EN 55011, CISPR11 Cl. B

electrical safety requirements

product family standard EN 61010-1

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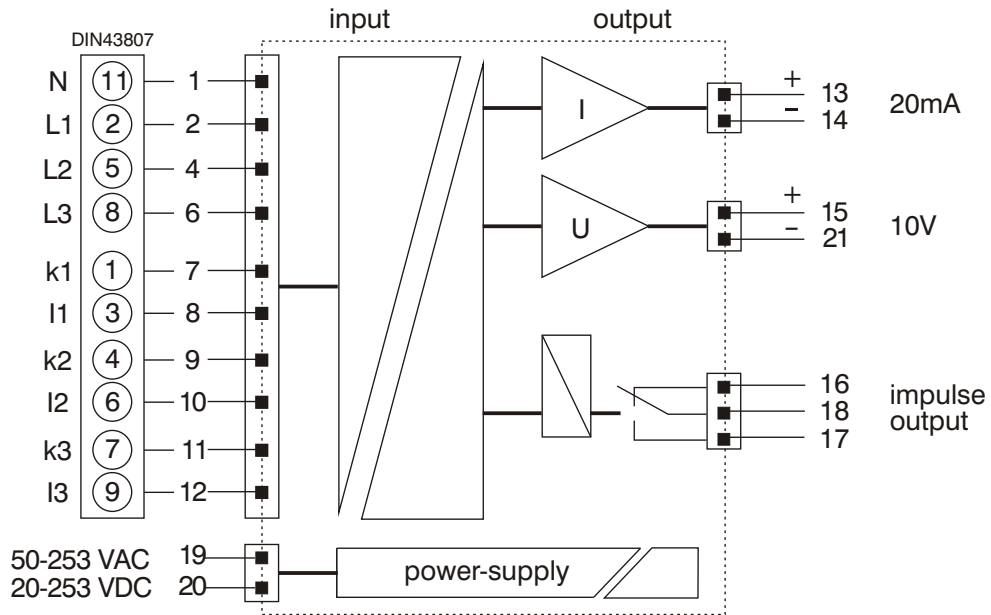
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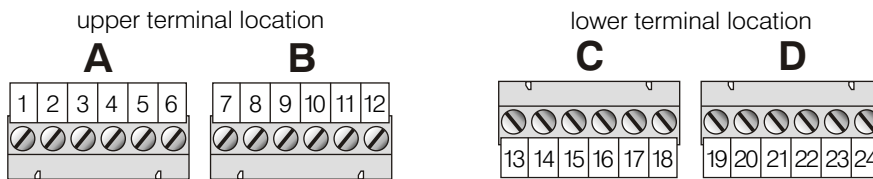
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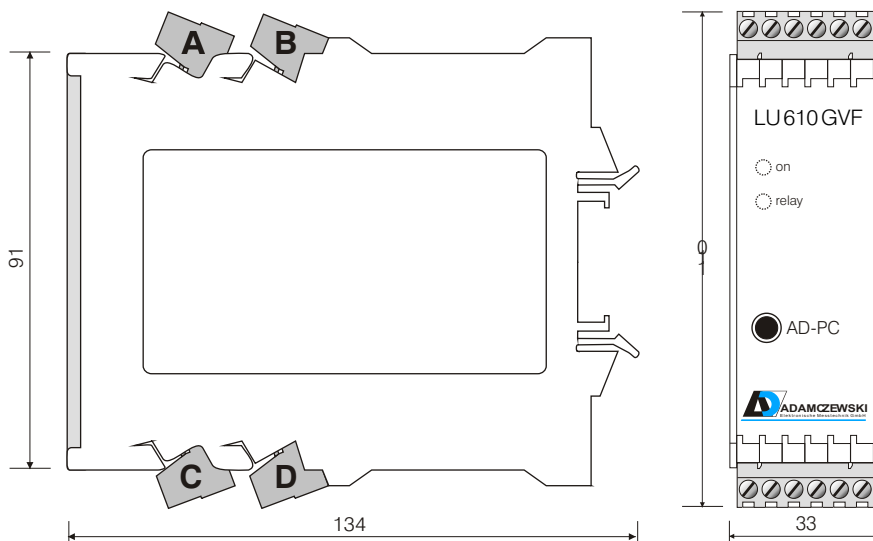
Block and wiring diagram



Terminal location



Dimensions



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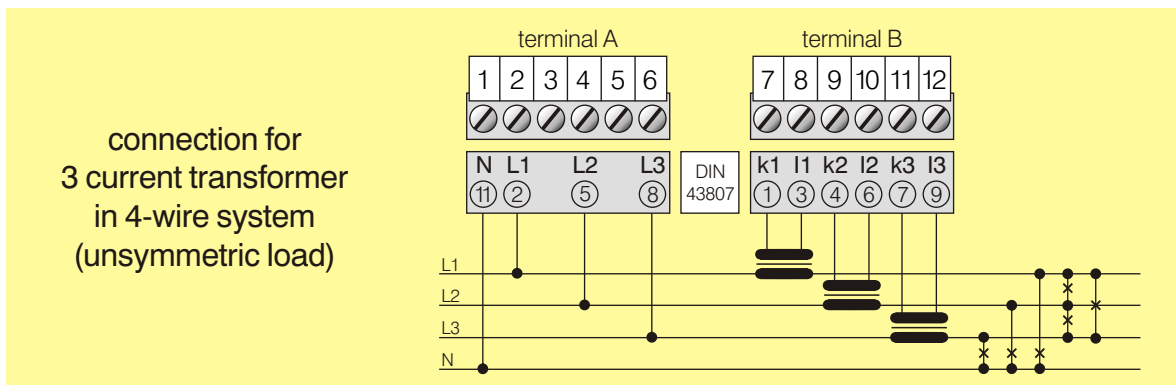
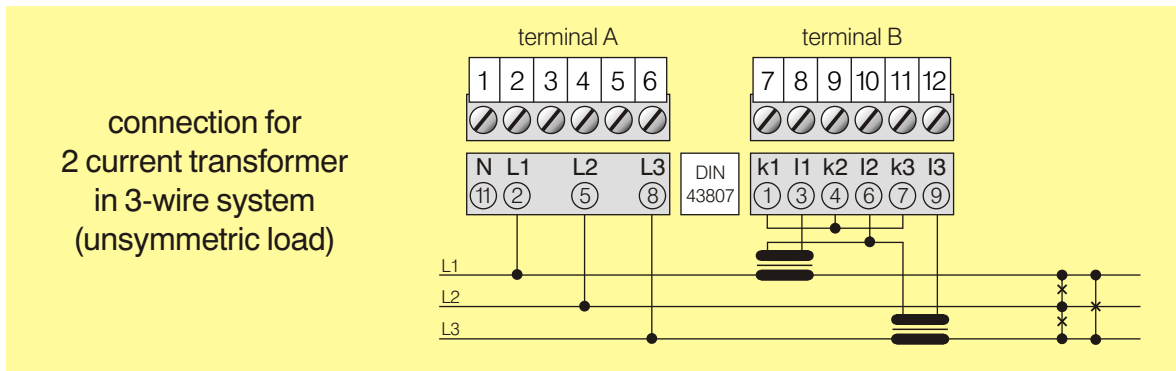
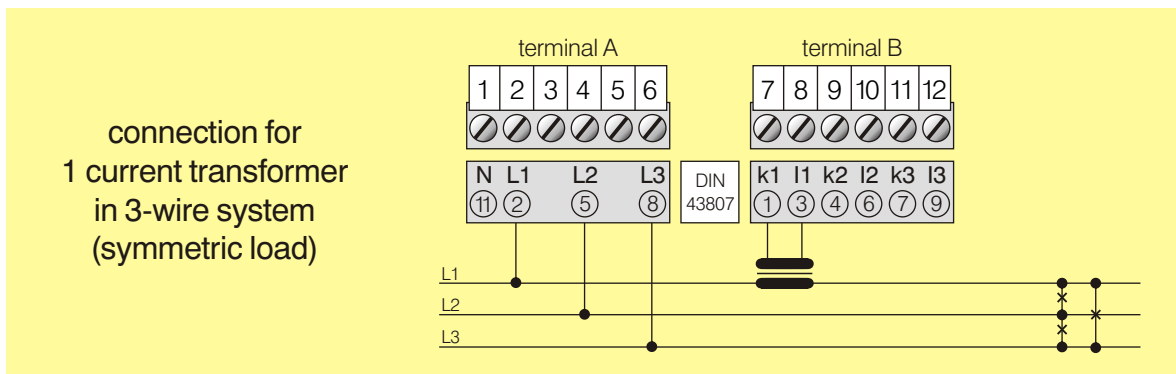
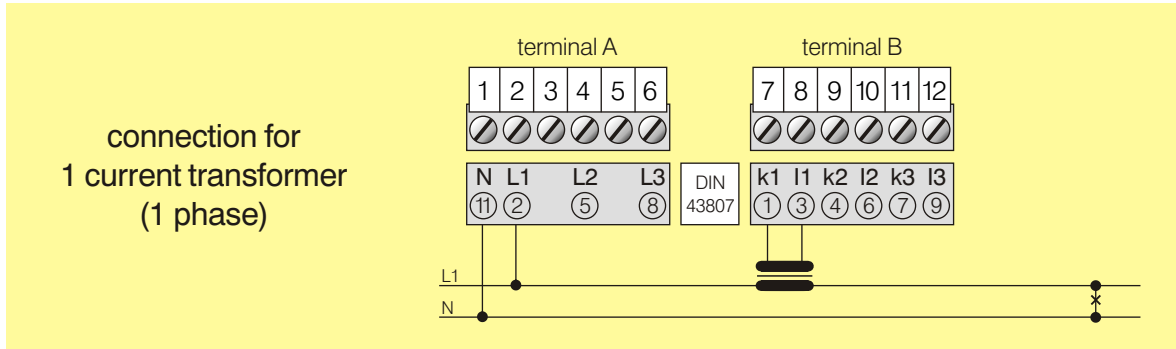
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Wiring diagram



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