

Power Measuring Transducer freely configurable

AD-LU 310 GVC

Description

The power signal transformer AD-LU 310 GVC 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. 250V
power consumption	0,5 mA
permanent load	$1,2x U_{nenn}$
shock load	$2x U_{nenn}$

connection technique

measured variables	active-, reactive-, apparent power, frequency, current and voltage, power factor
phases	1-phase
connection	2/4-wire system unsymmetric load

analogous output current

output range	max. 20mA, freely configurable
no load voltage	< 12V
current limiting	ca. 24mA
output load	max. 500 Ohm

analogous output voltage

output range	max. 10V, freely configurable
output load	> 2 kOhm

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% $O_{(cap.)} \dots 1..0_{(ind)}$
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)	18x110x128mm
type of protection	IP 20 (EN 60529)
terminal cross-section	max. 2,5 mm ²
connection method	terminal block for easy wiring
manner of fastening	DIN rail 35mm (EN 50022)
weight	ca. 110 gr.

environmental conditions

ambient temperature	0...+50°C
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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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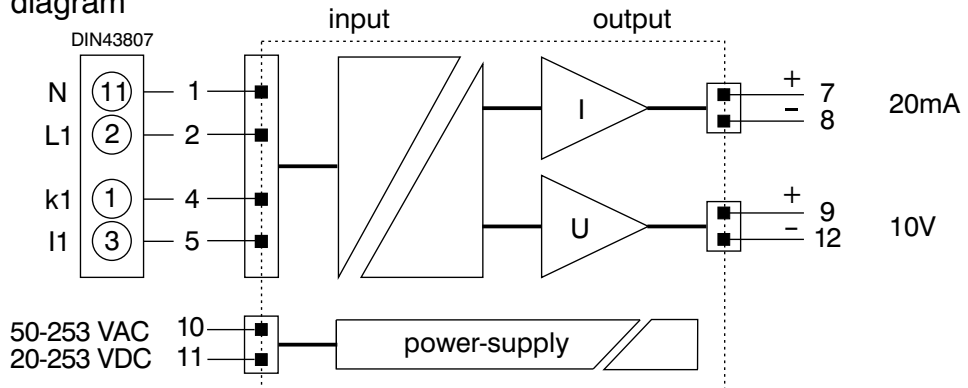
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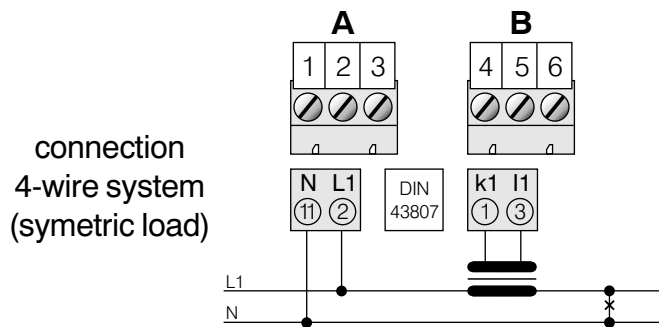
freely configurable

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Block and wiring diagram



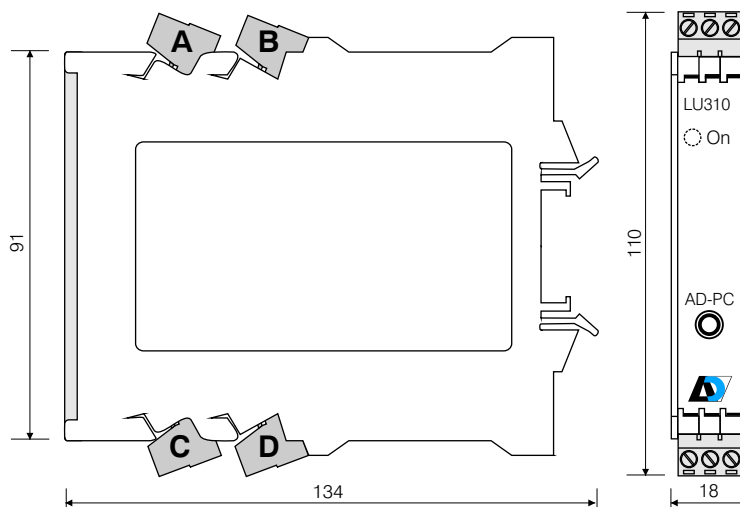
Wiring diagram



Terminal location



Dimensions



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