Tel.: 49 2162 40025
Fax: 49 2162 40035
info@dsl-electronic.de
www.dsl-electronic.de

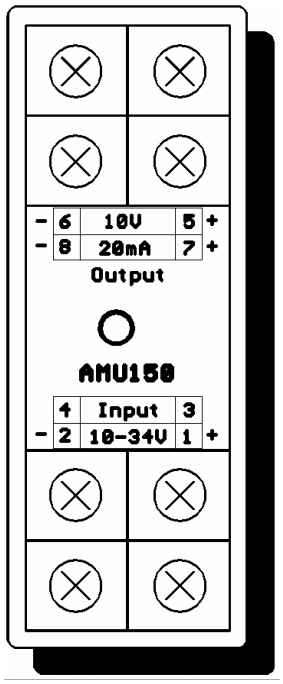
DSL electronic® GmbH

AC Current Measuring Transducer AMU150 (5A) AMU110 (1A)

with true RMS measuring

Functional Ranges:

Input (rated)	Output	Jumper setting
0-5A	0-20mA	A
0-5A	4-20mA	C
0-5A	0-10V	A
0-5A	2-10V	C



Application:

The Measuring Transducer AMU is used to transform an AC current to an 0/4-20mA or 0/2-10V output signal for driving display units and controls. The potential separation of the measuring circuit from the output circuit and the supply voltage (10-34VDC) make the AMU150/110 suitable in particular for use in disturbed environments and with ambiguous potentials. This allows the unit to also measure AC currents on other voltage levels.

The input value 0 – 5A(1A) AC is measured as true RMS and then transferred to the output in linear fashion. Internal jumper settings allow the device to be operated at output ranges of 0-20mA, 4-20mA , 0-10V and 2-10V. The trimmer potentiometers located on the top of the device allow the output value and the zeroing to be adapted to the periphery.

Connections and Settings

The output circuit can supply the 20mA signal or a simultaneous 10V signal (top terminals). The supply voltage is connected to the bottom terminals. The coding of the jumpers for setting the operating modes is usually carried out according to customer specifications. The customer can change the jumper settings at any time by opening the snap-in housings (by pressing the two nipples on the ends) and changing the jumper setting (with no operating voltage applied).

Technical Data

Typ	AC Current (RMS) Measuring Transducer AMU110 (0-1A) , AMU150 (0-5A)
Construction	Plastic housing on 35 mm hat acc. to DIN EN 50022
Material of housing	Bayblend FR 1439/0240 modified ABS with burning protection UL 94 VO
Dimension/Weight	22,5x68x109mm (WxHxD), appr. 100 g
Supply voltage	10 - 34 VDC, max. 100mA, mispolarisation protection (or 15-20VAC, 100mA)
Input	AC current 50 - 400Hz up to 5A (0,04 Ohm), True RMS measurement
Outputs	0/4-20mA (max.500 Ohm) and 0/2-10V (min. 1KOhm or max. 10mA)
Measuring delay	200ms (90% of maximum value)
Class of accuracy	< 1%
Linear distortion	< 0.5%
Temperature drift	< 0.25% / 10°C
On-period	100 %
Voltage protection	Rated isolation voltage 1000V 50Hz (Input- Output, Input- Aux., Output- Aux.)
Connecting terminals	2 Wires per terminal up to 2,5 mm² each
Type of protection	Housing IP 40 , terminals IP 20 (VDE 0106T100/VBG4)
Ambient temperature	-10 °C to +55°C, 95% Hum
Mains isolating	EN 60 742 (safety transformers)
General regulations	EN 50 178 (electrical units in power current installation)
Radio interference	EN 55 022/B
EMV	EN 61000 und EN V 50 140
Installation position	Any
Maintenance	Maintenancefree