

Current sensor with integral current converter



This sensor can be used to measure the **effective current** (**RMS**) of any consumer up to 16 A alternating current.

For high starting currents, a pulse load of up to 100 A is permissible.

A current converter is located inside the enclosure. The supply cable for the system component to be measured is looped through here.

A microprocessor converts the analogue measurement values into a serial digital signal suitable for the DL bus (data link).

DL bus (address, index)

The sensor is supplied with power from the DL bus (data link) and returns the relevant measurement to the controller upon request.

Suitable controllers:

UVR1611 from version A3.00 and serial number 13286, but only practical in the ampere range (index 2) $\,$

UVR16x2 and all CAN bus devices with X2 and DL connection

The request is made up of the address of the sensor and index of the measurement.



The **address** is set using the DIP switches on the PCB. In the delivered condition, the address is set to 1 (factory setting).

Provided no other sensors are connected to the DL bus, no change of address is required.

DIP switches

The effective address is derived from address 1 (= factory setting) plus the sum of all the values of the selected DIP switch settings.

Example: Required address 6

= 1 (from factory setting) + 1 + 4

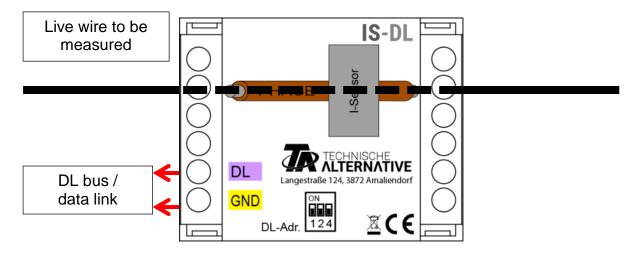
= DIP switches 1 and 4 must be set to **ON**.

The **index** of the measurement is fixed:

Index	Measurement	Measuring range
1	Current [0.1 mA]	10 mA 3200 mA
2	Current [0.1 A]	0.1 A 16.0 A

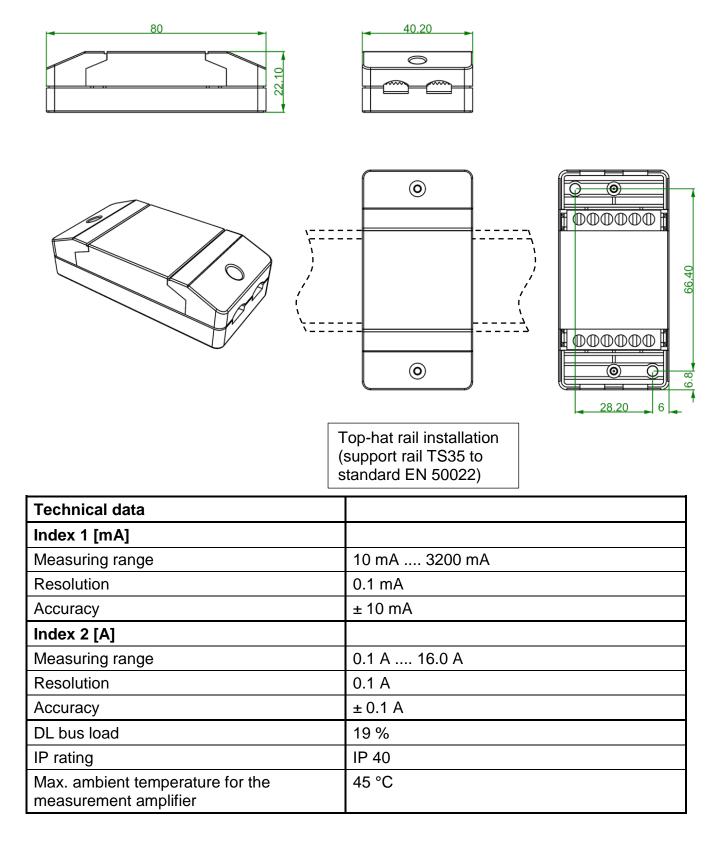
UVR16x2 and devices with X2 technology: The measurements are programmed as DL inputs in the "DL bus" menu.

Connection, installation and technical data



The polarity of the **DL bus** connections is **reversible**; there is no required polarity to be observed.

Dimensions in mm



EU Declaration of conformity

Document- Nr. / Date:	TA17064 / 02/02/2017	
Company / Manufacturer:	Technische Alternative RT GmbH	
Address:	A- 3872 Amaliendorf, Langestraße 124	
This declaration of confor	mity is issued under the sole responsibility of the manufacturer.	
Product name:	IS-DL	
Product brand:	Technische Alternative RT GmbH	
Product description:	Current sensor with integral current converter	
The object of the declarat	ion described above is in conformity with Directives:	
2014/35/EU	Low voltage standard	
2014/30/EU	Electromagnetic compatibility	
2011/65/EU	RoHS Restriction of the use of certain hazardous substances	
Employed standards:		
EN 60730-1: 2011	Automatic electrical controls for household and similar use – Part 1: General requirements	
EN 61000-6-3: 2007 +A1: 2011 + AC2012	Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments	
EN 61000-6-2: 2005 + AC2005	Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity for industrial environments	
EN 50581: 2012	Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances	
Position of CE - label: On	packaging, manual and type label	

CE

Issuer:

Technische Alternative RT GmbH A- 3872 Amaliendorf, Langestraße 124

This declaration is submitted by

Schneith chidros

Dipl.-Ing. Andreas Schneider, General manager, 02/02/2017

This declaration certifies the agreement with the named standards, contains however no warranty of characteristics.

The security advices of included product documents are to be considered.