

## SIRAX BT72x0 and SIRAX BT73x0 AC/DC current transformer with energy meter functionality

### Description

The SIRAX BT7200/BT7250 and SIRAX BT7300/BT7350 series are current transformers with integrated energy meter functionality for monitoring 1-phase AC and DC applications. The large number of measured variables, the maximum current of up to 300 AAC or 400 ADC at maximum 1000 VDC or 800 VAC allow a versatile use of the devices.

### Characteristics

- Break-resistant plastic housing made of PBT
- Flame retardant and self extinguishing according to UL94 V0
- Bidirectional energy measurement
- Max. voltage range up to 800 VAC / 1000 VDC
- Max. current range up to 300 AAC / 400 ADC
- Galvanic separation from the measuring circuit
- Configuration by configuration software
- Serial RS485 Modbus/RTU output
- DIN rail or wall mounting for vertical or horizontal position



### Application

With the ability to measure currents with different frequency ranges, the AC/DC current transformers with energy meter functionality are the ideal solution for monitoring photovoltaic systems, battery charging systems, UPS systems and variable frequency drives.

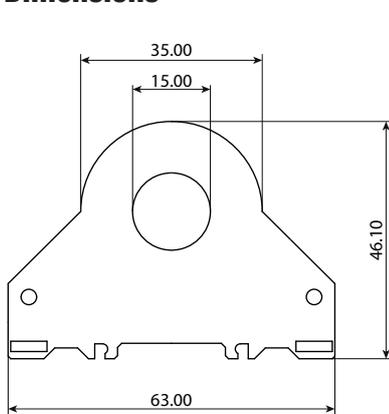
### Technical specifications

	SIRAX BT7200	SIRAX BT7250	SIRAX BT7300	SIRAX BT7350
System type	1-phase AC/DC			
Type of measure	TRMS (monopolar) or DC			
Current measurement	Integrated Hall effect current sensor			
Installation form	DIN rail mounting			
Mounting position	arbitrarily, vertically or horizontally			
<b>Input</b>				
Input range current	50 A AC/DC		300 AAC / 400 VDC	
Input range voltage	800 VAC / 1000 VDC	80 VAC / 100 VDC	800 VAC / 1000 VDC	80 VAC / 100 VDC
Transformer ratio	1,0 standard (customizable)			
Power supply	9...30 VDC			
Absorption	< 1.3 W			
Max. cable diameter	14 mm		32 mm	
<b>Output</b>				
Output range	RS485 Modbus/RTU			
Sampling rate	11 kHz			
Working frequency	DC or 1...400 Hz			
<b>Accuracy</b>				
Accuracy	Voltage, Current, Active power, Phase to phase voltage: < 0.5% F.S. / Frequency: $\pm 0.1$ Hz / Energy: $\pm 1\%$ / Reactive power: <1.5% F.S. / Apparent power from 0.1 In to In: $\pm 1\%$ rdg / Apparent power from 0.05 In to 0.1 In: $\pm 2\%$ rdg			

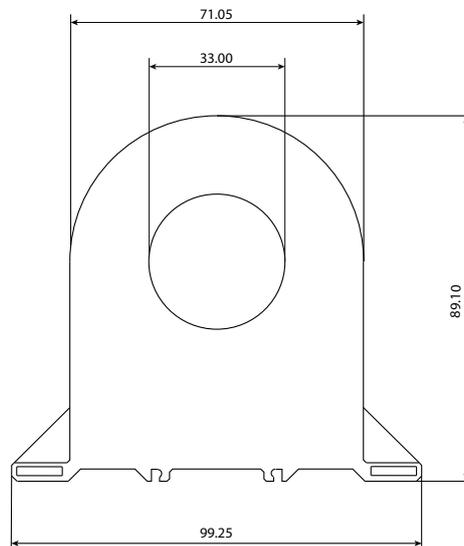
# SIRAX BT72x0 and SIRAX BT73x0 AC/DC current transformer with energy meter functionality

	SIRAX BT7200	SIRAX BT7250	SIRAX BT7300	SIRAX BT7350
Resolution	12 bit			
Temperature coefficient	< 200 ppm/°C			
Crest factor	1.8		1.4	
Input impedance	1 MΩ ±1%			
<b>Safety and environmental conditions</b>				
Operating temperature	-15 ... +65 °C			
Humidity	10 ... 90 % (not condensing)			
Housing protection IP	IP20			
Isolation	3 kV on bare wire for Current measurement / 4 kV for Voltage measurement			
Overvoltage category	CATIII up to 600 V CATII up to 1000 V	CATIV up to 100 V	CATIII up to 600 V CATII up to 1000 V	CATIV up to 100 V
Altitude	max. 2000 m			
<b>Mechanical properties</b>				
Housing material	PBT			
Filling	Epoxy Resins			
Flammability	UL94 V-0, self-extinguishing, non-dripping, halogen-free			
Weight	80 g		370 g	
Connections	Plug-in terminals 3.5 mm, 1x4 Pol, 2x2 Pol			
DIP switch	2 Pol			
Programming	Via DIP switch, Modbus RTU and software			
Mounting	Screw grooves for vertical and horizontal panel mounting / Fasteners for mounting on DIN rail			
Dimensions	46.1 x 63 x 26.4 mm (without terminals)		89.1 x 99.25 x 28.5 mm (without terminals)	
<b>Standards</b>				
Adhered standards	EN61000-6-4; EN64000-6-2; EN61010-1			
<b>Order data</b>				
Article-No.	179970	179988	179996	180000

## Dimensions



**SIRAX BT7200/BT7250**



**SIRAX BT7300/BT7350**



Camille Bauer Metrawatt AG  
Aargauerstrasse 7  
CH-5610 Wohlen / Switzerland  
Telefon: +41 56 618 21 11  
Telefax: +41 56 618 21 21  
info@camillebauer.com  
www.camillebauer.com