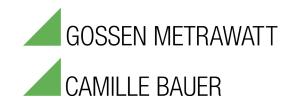
GMC INSTRUMENTS



SIRAX BT70x0 and SIRAX BT71x0 AC/DC current transformer with transmitter functionality

Description

The SIRAX BT7000 / BT7050 and SIRAX BT7100 / BT7150 series are current transformers with integrated transmitter functionality for monitoring single-phase AC or DC applications. The current measurement is done galvanically separated from the measured line. The large number of measured variables, the maximum current of up to 300 AAC or 400 ADC allow a versatile use of the devices.

Characteristics

- Break-resistant plastic housing made of PBT
- Flame retardant and self extinguishing according to UL94 VO
- Current sensing by Hall effect; range: 300 AAC / 400 ADC
- Galvanic separation from the measuring circuit
- Configuration by means of configuration software
- Serial RS485 Modbus/RTU output and analog 0...10 V or 4...20 mA output
- DIN rail or wall mounting for vertical or horizontal position



Application

The AC/DC current transformers with transmitter functionality are the ideal solution for applications where only current needs to be monitored. The devices are perfect for monitoring medium / large photovoltaic installations, battery charging systems and industrial processes.

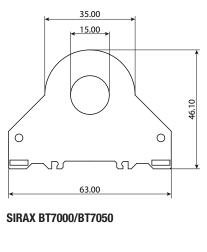
Technical specifications

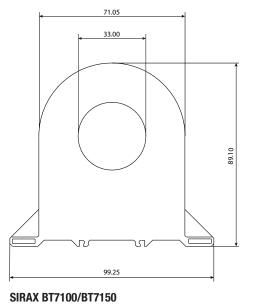
	SIRAX BT7000	SIRAX BT7050	SIRAX BT7100	SIRAX BT7150		
System type		1-phase AC/DC				
Type of measure	AC TRMS or DC					
Current measurement		Integrated Hall effect current sensor				
Installation form		DIN rail mounting				
Mounting position		arbitrarily, vertically or horizontally				
Input						
Measurement range	50 A	50 A AC/DC		300 A AC / 400 A DC		
Transformer ratio		1,0 standard (customizable)				
Power supply	1230 VDC	passive loop powered 1130 VDC	1230 VDC	passive loop powered 1130 VDC		
Absorption	< 20 mA	< 3.5 mA	< 20 mA	< 3.5 mA		
Max. cable diameter	ø14	ø14 mm		ø32 mm		
Output			2			
Analog output	010 VDC	420 mA	010 VDC	420 mA		
Burden	$\geq 1 \ \text{k}\Omega$	_	$\geq 1 \ \text{k}\Omega$	-		
Band width at -3dB		DC or 202000 Hz				
Digital output	RS485 Modbus/RTU	_	RS485 Modbus/RTU	-		

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	SIRAX BT7000	SIRAX BT7050	SIRAX BT7100	SIRAX BT7150		
Accuracy						
Accuracy	0.5% F.S.					
Resolution	12 bit					
Temperature coefficient	< 200 ppm/°C					
Crest factor	2 1.4					
Safety and environmental conc	litions					
Operating temperature	-15 +65 °C					
Humidity	10 90 % (not condensing)					
Housing protection IP	IP20					
Isolation	3 kV on bare wire					
Overload	2000 A (pulse); 300 A (continuos)		2000 A (pulse); 500 A (continuos)			
Altitude	max. 2000 m					
Mechanical properties						
Housing material	PBT					
Filling	Epoxy Resins					
Flammability	UL94 V-0, self-extinguishing, non-dripping, halogen-free					
Weight	72 g		370 g			
Connections	Plug-in terminals 3.5 mm, 5-pole	Plug-interminals 3.5 mm, 2-pole	Plug-in terminals 3.5 mm, 5-pole	Plug-in terminals 3.5 mm, 2-pole		
DIP switch	8-pole	2-pole	8-pole	2-pole		
Programming	Modbus RTU and Software	DIP switch	Modbus RTU and Software	DIP switch		
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)					
Standards						
Adhered standards	EN61000-6-4; EN64000-6-2; EN61010-1					
Order data						
Article-No.	179938	179946	179954	179962		

Dimensions







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