



Kompakt távadók erősáramú alkalmazásokhoz, **SIRAX BT sorozat sorozat**

Camille Bauer Metrawatt offers a wide range of high-quality measuring instruments for all tasks in heavy current systems.

With our DIN rail top-hat rail-mounted devices of the SIRAX series, we complement the portfolio of unfunctional measuring transducers for a very good price-performance ratio.

These devices have the basic functionalities of a measuring transducer and are used as cost-effective standard solutions for safe acquisition of a measured variable in a one-phase or three-phase heavy current system.

They convert a heavy current variable such as current, voltage, frequency or power, respectively, into a low-voltage signal (current or voltage). The devices feature an LCD display and may be programmed by the buttons on-site or centrally via RS485 Modbus RTU and the CB-Configurator software. In addition, the measured values may be visualised, stored and evaluated via SMARTCOLLECT. The SIRAX transducer series is designed for universal use in industrial machines and plants of automation and energy engineering.



Type	BT5100	BT5200
Connection types	Voltage One-phase	Current One-phase
INPUTS Nominal voltage [UN] Voltage converter primary value [PT] Nominal current [IN] Current transformer primary value [CT] Nominal frequency Power consumption Overload capability	57...500 V 57...400 kV 45...65 Hz < 0.6 VA 1.2 x UN permanent 2 x UN, 10x1 s, 10 min.	1... 5 A 1... 9999 A 45...65 Hz <0.2 VA 1.2 x IN permanent 10 x IN, 5x3 s, 5 min. 50 x IN, 1x1 s, 1 h
POWER SUPPLY	60...300 V AC/DC ±5 %	60...300 V AC/DC ±5 %
MEASUREMENT UNCERTAINTY Measurement uncertainty Measurement uncertainty phase angle, power factor	0, x C	0.2x C
ANALOG OUTPUTS Linearisation Range	Linear / kinked 0...20 mA / 4...20 mA or 0...10 V	Linear / kinked 0...20 mA / 4...20 mA or 0...10 V
COMMUNICATION	Standard RS485: Modbus/RTU	Standard RS485: Modbus/RTU
ENVIRONMENTAL CONDITIONS Operating temperature Storage temperature Temperature influence Relative humidity Operating altitude	0 ... 23 ... 45 °C -40...70 °C ± 0.2% / 10 °C < 75% < 2000 m above sea level	0 ... 23 ... 45 °C -40...70 °C ± 0.2% / 10 °C < 75% < 2000 m above sea level
SAFETY Protection class Pollution degree Measuring category Protection according to EN 60529	II (protection insulation acc. to EN61010) 2 CATIII IP40 housing, IP20 terminals	II (protection insulation acc. to EN61010) 2 CATIII IP40 housing, IP20 terminals
MECHANICAL PROPERTIES Display Housing material Flammability class Weight Dimensions [W x H x D]	LCD Lexan 940 (polycarbonate) V-0 acc. to UL94, self-extinguishing, non-dripping, free of halogen approx. 400 g 43.75 x 65.5 x 106.5 mm	LCD Lexan 940 (polycarbonate) V-0 acc. to UL94, self-extinguishing, non-dripping, free of halogen approx. 400 g 43.75 x 65.5 x 106.5 mm
ORDER CODE	175267	175283



Kompakt távadók erősáramú alkalmazásokhoz, **SIRAX BT sorozat** sorozat



Type	BT5300	BT5400
Connection types	Frequency One-phase	Power One-phase 3-phase 3-wire balanced or unbalanced load 3-phase 4-wire balanced or unbalanced load
INPUTS Nominal voltage [UN] Voltage converter primary value [PT] Nominal current [IN] Current transformer primary value [CT] Nominal frequency Power consumption Overload capability	57 ...500 V 45...55 Hz, 48...52 Hz, 55...65 Hz, 45...65 Hz < 0,6 VA 1.2 x UN permanent 2 x UN, 10x1 s, 10 min.	100...500 V 100...692 kV 1... 5 A 1...9999 A 25...60 Hz < 0,6 VA (voltage) / < 0,2 VA (current) 1.2 x UN / IN permanent 2 x UN, 10x1 s, 10 min. / 10 x IN, 5x3 s, 5 min. 50 x IN, 1x1 s, interval 1 h
POWER SUPPLY	60...300 V AC/DC $\pm 5\%$	60...300 V AC/DC $\pm 5\%$
MEASUREMENT UNCERTAINTY Measurement uncertainty Measurement uncertainty phase angle, power factor	0.2 x C	0.2 x C 0.5 x C
ANALOG OUTPUTS Linearisation Range	Linear / kinked 0...20 mA / 4...20 mA or 0...10 V	Linear / kinked Unipolar 0...20 mA / 4...20 mA or 0...10 V Bipolar -20...0...+20 mA or -10...0...+10 V
COMMUNICATION	Standard RS485: Modbus/RTU	Standard RS485: Modbus/RTU
ENVIRONMENTAL CONDITIONS Operating temperature Storage temperature Temperature influence Relative humidity Operating altitude	0 ... 23 ... 45 °C -40...70 °C $\pm 0.2\%$ / 10 °C < 75% < 2000 m above sea level	0 ... 23 ... 45°C -40...70°C $\pm 0.2\%$ / 10 °C < 75% < 2000 m above sea level
SAFETY Protection class Pollution degree Measuring category Protection according to EN 60529	II (protection insulation acc. to EN61010) 2 CATIII IP40 housing, IP20 terminals	II (protection insulation acc. to EN61010) 2 CATIII IP40 housing, IP20 terminals
MECHANICAL PROPERTIES Display Housing material Flammability class Weight Dimensions [W x H x D]	LCD Lexan 940 (polycarbonate) V-0 acc. to UL94, self-extinguishing, non-dripping, free of halogen approx. 400 g 43.75 x 65.5 x 106.5 mm	LCD Lexan 940 (polycarbonate) V-0 acc. to UL94, self-extinguishing, non-dripping, free of halogen approx. 400 g 78.5 x 65.5 x 106.5 mm
ORDER CODE	175308	175316



VISUALISATION

CLEAR REPRESENTATION OF MEASURED VALUES

The LCD display shows measured values directly on site.

- Display of input and output parameters
- High-contrast display with backlight for good reading of measurement values
- Clear and unambiguous display of measured data
- Simple navigation via two push buttons



SIMPLE ON-SITE PROGRAMMING OF MEASURED VALUES

The following parameters can be set directly on site by means of the LCD display and two push buttons.

- Network configuration
- Values of current and voltage transformers
- Input and output parameters
- Communication parameter Modbus RTU
- Password protection

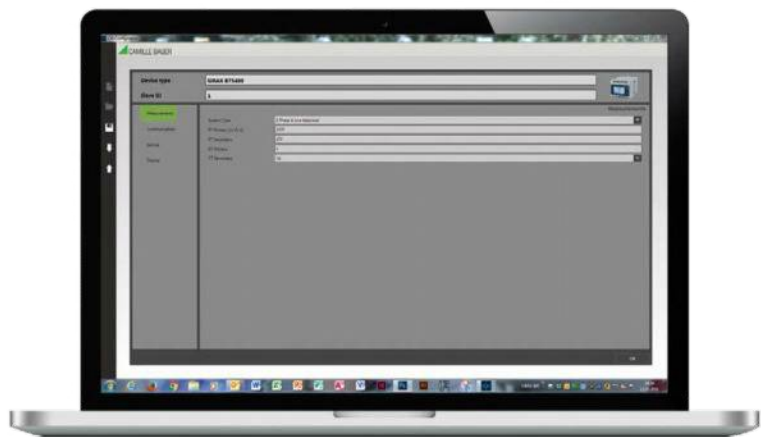


ADDITIONAL PROGRAMMING OF MEASURED VALUES VIA CB-CONFIGURATOR SOFTWARE

Via RS485 (Modbus RTU) interface and the CB-Configurator software the measured values may be programmed even more easily.

Devices may be selected directly in the software

- Setting of input and output parameters
- Offline parameterization of measured values
- Loading and storage of configuration
- Upload of predefined configurations to several devices at the same time
- Password protection





SMARTCOLLECT



SMARTCOLLECT is a data management software which can acquire measured data in an easy manner and store the same in an open SQL database. This software offers basic functionalities for data analysis and for easy energy monitoring as well as the easy preparation and disposal of reports.

Providing a mature graphic user interface, the SMARTCOLLECT software is clearly structured and easily operated.

SMARTCOLLECT is modularly designed and permits supplementing modules or functions at any time.

CUSTOMER BENEFITS

- Easy data communication via Modbus RTU / TCP, ECL and SmartControl-Direct
- Connection also via OPC
- Devices of Camille Bauer and Gossen Metrawatt are already predefined and selectable in the software
- Open for the devices of all manufacturers
- Data is stored in an open SQL database
- Modular cost / performance model – basic version may be extended at any time

MODULAR DESIGN

COMPONENTS

The SMARTCOLLECT data management software consists of the following components:

SMARTCOLLECT CLIENT

- Graphic visualisation of queried data
- Export via Excel file
- User interface to define the data sources to be read out as well as error and warning messages via email.

SMARTCOLLECT DATABASE

- SQL database
- Contains the collected data
- Open and unencrypted

SMARTCOLLECT SERVER

- Collects and configures data from active sources and channels and writes the same directly into the central database.

SMARTCOLLECT software components may be installed on an individual system or on several servers or computers

