KSG 200 and KSG 200 T

BAUR cable identification system

Figure: KSG 200 TA (with battery)

NEW!

- **Protection class II**
- **Measurement category CAT IV/600 V**
- **Optionally with rechargeable battery**

Clear, safe and quick cable identification

- Cable identification on all types of de-energised cables
- Reliable verification of the cable identification by means of the highly precise three-factor-analysis ATP
- Safe cable identification on live low-voltage cables*
- Connection technology according to CAT IV/600 V*

The KSG 200 cable identification system is used to identify single- and multi-core cables in a cable bundle or cable loom.

By using the KSG 200, the risk of accidentally cutting a live phase is significantly reduced. This way, you will avoid the following in future:

- High level risk of endangering individuals by miscutting;
- Unnecessary repair costs;
- Supply failures for connected customers.

The cable identification system consists of a transmitter and a receiver with a flexcoupler. Intelligent electronics enable the communication between both components and make an absolutely safe cable identification possible through time and phase synchronising as well as automatic gain adjustment.

The operator-friendly and intuitive operation of the KSG 200 allows for it to be used immediately without extensively training the operator. The cable identification system is supplied in a convenient and stable transport case.

* The KSG 200 T cable identification system is classified as measurement category CAT IV/600 V and is specified for cable identification on live cables.

Functions

- Cable identification on de-energised cables
- Cable identification on live cables up to 400 V operating voltage*
- Suitable for
  - Single- and multi-core cables
  - Branched networks

Features

- Automatic recording and analysis of transmitting pulses (ATP analysis):
  - Amplitude
  - Interval (time)
  - Pulse direction (polarity)
- Error-free detection of the pulse direction, even et a high loop resistance of up to 400 Ohm
- High pulse current up to 180 A
- Fully automatic gain adjustment
- Expert mode for manual gain settings for clear cable identification on compact substations or mixed cable routes
- Signal uncoupling by means of a flexcoupler for large cable diameters of up to 250 mm
- Coupling of the transmitting pulse is effected in a galvanic or inductive manner by means of optionally available clip on current transformers
- Current measurement up to 199 A
- Essential for active occupational health and safety
- Reliable and robust protection technology
- Ergonomically designed receiver with integrated LCD display
- No batteries required for the receiver
- Transmitter with integrated rechargeable battery and possibility of external power supply (12 V port) optionally available

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Technical data

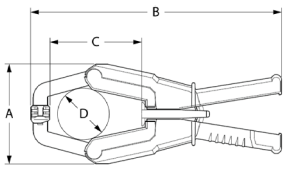
Transmitter	KSG 200	KSG 200 A	KSG 200 T	KSG 200 TA
	For cable identification on disconnected cables		For cable identification on live cables	
Pulse voltage	300 V	300 V	300 V	300 V
Pulse current	Max. 180 A	Max. 180 A	Max. 180 A	Max. 180 A
Pulse sequence	15 pulses/min	15 pulses/min	15 pulses/min	15 pulses/min
Power supply				
Mains voltage	115/230/240 V, 50/60 Hz	–	115/230/240 V, 50/60 Hz	–
External supply	–	DC 12 V	–	DC 12 V
Rechargeable battery	–	NiMH rechargeable battery 12 V	–	NiMH rechargeable battery 12 V
Voltage-proof output	–	–	Max. 400 V, 50/60 Hz	Max. 400 V, 50/60 Hz
Measurement category	–	–	CAT IV/600 V	CAT IV/600 V
			Nominal DC or AC_{rms} (line-to-neutral): 600 V	
Protection class	II	Not applicable in battery operation	II	Not applicable in battery operation
Degree of protection	IP40	IP40	IP40	IP40

NiMH rechargeable battery (KSG 200 A / KSG 200 TA)	
Battery type	NiMH rechargeable battery 12 V (10 cells); 4.2 – 5 Ah
Battery life	Approx. 2.5 – 3.5 h
Charging time	Approx. 4.5 – 5 h
Charger	
Power supply	100 – 240 V, 50/60 Hz
Output voltage	DC 10.5 – 20 V, 1 A

General information on the cable identification systems in the KSG 200 series	
Ambient temperature (operation)	-10°C to +55°C
Storage temperature	-20°C to +50°C
Case dimensions (W x H x D)	Approx. 594 x 174 x 435 mm
Weight of case with transmitter and receiver	Approx. 6.2 kg (without battery) Approx. 7.7 kg (with battery)
Safety and EMC	CE compliant in accordance with Low Voltage Directive (2014/35/EU), EMC Directive (2014/30/EU), Environmental testing EN 60068-2-ff

Clip-on current transformer (option)		AZ 10/D 70	AZ 10/D 80	AZ 10/D 125
Inner diameter	D	70 mm	80 mm	125 mm
Outer diameter	A	133 mm	146 mm	182 mm
	B	336 mm	336 mm	317 mm
	C	126 mm	128 mm	125 mm

Receiver KSG 200 / KSG 200 T	
Sensitivity	
with galvanic impulse coupling	100 % at a loop resistance of 400 Ohm (I = 0.75 A)
with inductive impulse coupling	100 % at a loop resistance of < 6 Ohm
Load current range	0 – 199 A ± 2%, 50/60 Hz
Battery life	Approx. 1.5 h
Display	LCD display
Power supply	Automatic recharging in the holder of the transmitter
Degree of protection	IP52
Dimensions (W x H x D)	Approx. 100 x 25 x 211 mm
Weight	
with flexcoupler Ø 150 mm	Approx. 360 g
with flexcoupler Ø 250 mm	Approx. 470 g



The figure is illustrative.

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Standard delivery

KSG 200 cable identification system (for de-energised cables)	KSG 200	KSG 200 A
Transmitter KSG 200	x	
Transmitter KSG 200 A with integrated rechargeable battery		x
Receiver KSG 200		
with flexcoupler ø 150 mm	x	x
with flexcoupler ø 250 mm	Option	Option
Connection cable 2 m, with connection clips	x	x
Mains supply cord 1.8 m	x	
Charger incl. country-specific adapter		x
Vehicle charge cable		x
Transport case for all components	x	x
User manual	x	x
Options		
Clip-on current transformer AZ 10/D 70	Option	Option
Clip-on current transformer AZ 10/D 80	Option	Option
Clip-on current transformer AZ 10/D 125	Option	Option

KSG 200 T cable identification system (for live cables)	KSG 200 T	KSG 200 TA
Transmitter KSG 200 T	x	
Transmitter KSG 200 TA with integrated rechargeable battery		x
Receiver KSG 200 T		
with flexcoupler ø 150 mm	x	x
with flexcoupler ø 250 mm	Option	Option
Connection cable 2 m, with connection clips	x	x
Connection set to connect to live LV cables	x	x
Flexible rod, fully insulated (for applying the flexcoupler to live cables)	x	x
Mains supply cord 1.8 m	x	
Charger incl. country-specific adapter		x
Vehicle charge cable		x
Transport case for all components	x	x
User manual	x	x
Options		
Clip-on current transformer AZ 10/D 70	Option	Option
Clip-on current transformer AZ 10/D 80	Option	Option
Clip-on current transformer AZ 10/D 125	Option	Option

Figure: KSG 200 T (without battery)