

Data Sheet



Cable Identification System KSG 100 / KSG 100 T

The **Cable Identification System KSG 100** is a high-sophisticated instrument for identification of single or multicore cables from a cable bunch or cable strand.

Latest technologies and innovative, user-orientated software supply the KSG 100 with unique advantages.

The instrument is easy to use.

The KSG 100 consists of a transmitter and a receiver with flexible coupler (Rogowski coil). Both units are equipped with micro-controllers and can thus communicate with one another.

The latest software algorithms perform numerous plausibility checks and thus ensure maximum reliability of the measured results.

Special features are, for example, the fully automatic gain control, the user-friendly menu guiding, voltage proof pulse transmitting output (top version KSG 100 T) as well as the small dimensions of the KSG 100.

The **Cable Identification System KSG 100 T** (our top version) is based on the functionality of the KSG 100 and includes the below specified additional feature:

- Direct injection on live cables, max. 400 V, 50/60 Hz

Features:

- Cable selection of single core and multicore cables and lines
- Most reliable signal acquisition via digital 3-factor analysis (Amplitude-Time-Phase **ATP**)
- Direct signal injection even at live cables, up to 400 V (KSG 100 T)
- Safe identification of cables up to a loop resistance of 400 Ohm

- Inductive signal injection via current transformer clamp at live cables (AZ 10)
- Signal reception via flexicoupler (Rogowski coil)
- Load current measurement up to 199 A by push of a button
- Ergonomically designed receiver with integrated graphics display
- Fully automatic gain control
- Expert mode for manual gain control at compact substations (mini subs) or mixed cable traces for clear identification
- User-friendly menu guiding
- No batteries necessary for receiver
- Automatic synchronisation of transmitter and receiver

Technical data

Pulse Transmitter KSG 100

Output voltage	300 V (15 pulses / min)
Output current (pulse)	180 A max.
Mains supply	115/230 V, 50/60 Hz
Pulse indication	LED lights up with frequency of current pulse
Operating temperature	- 10 to + 55 ° C
Power consumption	50 VA
Dimensions of transport case (W x H x D)	536 x 187 x 425 mm
Weight including transport case	approx. 6 kg
Transmitter	is integrated in transport case
Degree of protection	IP 50

Pulse Receiver KSG 100

Display	Graphics LCD
Sensitivity at direct connection of transmitter	100%; at 400 Ohm loop resistance (i = 0,75 A)
Sensitivity at inductive signal injection	100% at loop resistance < 6 Ohm
Power supply	No batteries required! Automatic charging.
Load current measuring range	0 - 199 A +/- 2%, 50/60 Hz
Charging time	20 sec.
Signal decoupling	Flexible coupler Ø 150 mm
Operating temperature	- 10 to + 55 ° C
Dimensions (W x H x D)	100 x 25 x 211 mm
Weight	approx. 361 g
Degree of protection	IP 52

Pulse Transmitter KSG 100 T

Output voltage	300 V (15 pulses / min)
Output current (pulse)	180 A max.
Voltage-proof output	max. 400 V, 50/60 Hz
Mains supply	115/230 V, 50/60 Hz
Pulse indication	LED lights up with frequency of current pulse
Operating temperature	- 10 to + 55 ° C
Power consumption	50 VA
Dimensions of transport case (W x H x D)	536 x 187 x 425 mm
Weight including transport case and CT clip-on device	approx. 6 kg
Transmitter	is integrated in transport case
Degree of protection	IP 50
Overvoltage category	CAT III, 600 V

Pulse Receiver KSG 100 T

Display	Graphics LCD
Sensitivity at direct connection of transmitter	100%; at 400 Ohm loop resistance (i = 0,75 A)
Sensitivity at inductive signal injection	100% at loop resistance < 6 Ohm
Power supply	No batteries required! Automatic charging.
Load current measuring range	0 - 199 A +/- 2%, 50/60 Hz
Charging time	20 sec.
Signal decoupling	Flexible coupler Ø 150 mm
Operating temperature	- 10 to + 55 ° C
Dimensions (W x H x D)	100 x 25 x 211 mm
Weight	approx. 361 g
Degree of protection	IP 52

Cable Identification System KSG 100

Delivery includes:

- Pulse receiver KSG 100 with flexicoupler
- Pulse transmitter KSG 100
- Transport case for Cable Identification System KSG 100
- Connection cable with tapping terminals; for direct signal injection
- Mains connection cable
- User Manual

Options:

- CT clip-on device Ø 70 mm; AZ 10 / D 70 for inductive signal injection
- CT clip-on device Ø 80 mm; AZ 10 / D 80 for inductive signal injection
- CT clip-on device Ø 125 mm; AZ 10 / D 125 for inductive signal injection
- Connection cable with tapping terminals, 15 m long

Cable Identification System KSG 100 T

Delivery includes:

- Pulse receiver KSG 100 with flexicoupler
- Pulse transmitter KSG 100
- Transport case for Cable Identification System KSG 100 T
- Connection cable with tapping terminals; for direct signal injection
- Adapter set for direct signal injection on live LV cables
- Fully insulated flexible rod for application of flexicoupler on live cables

Options:

- CT clip-on device Ø 70 mm; AZ 10 / D 70 for inductive signal injection
- CT clip-on device Ø 80 mm; AZ 10 / D 80 for inductive signal injection
- CT clip-on device Ø 125 mm; AZ 10 / D 125 for inductive signal injection
- Connection cable with tapping terminals, 15 m long

