

## Data Sheet



## System for line and cable fault location Locator Set

The system for line and cable fault location Locator Set is used particularly for accurate location of underground cables and routes of metallic gas or water pipes. With different accessories this system becomes a universal, indispensable device for electricity boards, industry and waterworks utilities. In general the Locator Set can be applied for the following jobs:

- route tracing of cables and metallic gas and water pipes
- depth evaluation of cables and metallic pipes
- cable selection
- cable detection on live lines
- location of cable and line joints
- accurate location of cable faults according to the twist method

**The audio frequency system includes the following main components:**

Universal receiver	UL 30
Audio frequency transmitter with standard accessories	TG 20/50

For description of the different audio frequency transmitters and receivers please see our respective data sheets.

**Technical data UL 30:**

<b>Tracing</b>	
Receiving frequency for search coil	2 kHz, 10 kHz, others selectable
Passive reception	50 / 60 Hz mains signal
Input sensitivity	< 10 nA
<b>General</b>	
Filter	digital
Amplification	> 120 dB, adjustable
Headphone output	3 - pin jack plug, 6.3 mm
Operating temperature	-20°C....+55°C
Degree of protection	IP54
Power supply	4 x 1.5 V cells (IEC LR 6)
Battery life (normal operation)	approx. 40 h
Weight	550 g

**Technical data TG 20/50**

Output power	0 - 50 VA in mains operation 0 - 20 VA in battery operation
Output current	8 A max.
Frequencies	2 frequencies, switchable 2 kHz $\pm$ 0,1 %, k-factor $\leq$ 1,5 % at 4 VA 10 kHz $\pm$ 0,1 %, k-factor $\leq$ 3 % at 4 VA
Output impedance	In 7 steps 1 $\Omega$ / 3 $\Omega$ / 10 $\Omega$ / 30 $\Omega$ / 100 $\Omega$ / 300 $\Omega$ / 1000 $\Omega$ Automatic or manual adjustment
Charging unit (incorporated)	Overcharge protection - when in mains supply, charging is made in all operating modes
Low level discharge protect.	Instrument switched off before battery is completely empty
Operating time	At 20 VA; approx. 2.5 h
Operating temperature	- 20 to + 50 ° C
Power supply	Mains connection 110-120 V / 220-230 V / 240 V $\pm$ 10 %; 50 - 60 Hz Internal battery 12 V; 9.5 Ah External supply 12 V - 24 V DC (reverse battery protection)
Dimensions (w x h x d)	Approx. 290 x 130 x 240 mm
Weight	Approx. 9.5 kg

## Locator Set with Universal Locator UL 30

### Delivery includes:

- Transport case for Locator Set
- Audio frequency transmitter TG 20/50
- Carrying strap for TG 20/50
- Mains supply cord for TG 20/50
- 3m earth cable with earthing clamp
- 2m connection cable black, touch proofed
- 2m connection cable red, touch proofed
- Universal receiver UL 30
- Battery alkaline-manganese; 1.5 V; IEC LR 6 (4 pcs.)
- Carrying strap for UL 30
- Cover bag for UL 30
- Headphones KH
- Search coil SP 30
- Auxiliary cable 25 m, on hand reel
- Tapping terminals, black / red
- Earth spike
- User manual

### Options:

- Selecting coil AS 2/30 for 2,000 Hz
- Selecting coil AS 10/30 for 10,000 Hz
- Loop antenna RA 10
- Clip-on current transformer AZ 10/D 70 mm
- Clip-on current transformer AZ 10/D 80 mm
- Clip-on current transformer AZ 10/D 125 mm
- 5 m battery connection cable, black / red
- Enclosed headphones (for suppression of ambient noise) KH S
- Accessories set for sheath fault location with UL 30