

CL 20

BAUR cable locator



Simple, precise, economical

- Precision locating system for cables and pipes
- Advanced signal acquisition and filtering technology
- Intuitive operation – no special knowledge required

The CL 20 cable locator is used for route tracing, long runs of pipe and cable, as well as basic service cables.

Multiple active frequencies allow the user to accurately locate with a minimum of interference. Passive frequencies identify “live” and charged lines by their naturally occurring electromagnetic fields. The CL 20 offers multiple passive frequencies – 50 Hz, 60 Hz, Radio Frequency, Cathodic Protection Rectifier & CATV – allowing line locating without the use of a transmitter.

Updated transmitter functions include improved transmitter induction, multi-frequency coupled induction ranging from 8 kHz to 82 kHz, and automatic impedance matching for direct connections. The 10 watt transmitter has the ability to simultaneously apply two frequencies to a utility. From one transmitter setting the user can locate the main line as well as other service lines by “lighting up” the entire site. This set-and-forget feature saves time and money by reducing the need to repeatedly relocate the transmitter.

All functions are accessed via weather-proof membrane buttons and both user input and transmitter status are verified with audible responses.

Features

- Multiple frequencies crafted to individual locating requirements
- Powerful 10 watt transmitter signal is reliable for direct connection, transmitter and coupled induction
- Automatic impedance matching technology: maximizes your transmission range while minimizing power consumption
- Operating modes for various location conditions:
 - Peak method
 - Pinpoint peak method
 - Null method
 - Simultaneous peak/null
 - Tracing with right/left indication
- Optical signal display and audio indication
- High-contrast LCD Interface with Backlight: guides the operator to the target location by providing all relevant data including continuous depth, current measurement, signal strength, and directional arrows.
- Constant depth and current measurement: real time updates on line depth and signal condition
- Passive frequencies for location of “live” utilities without the use of a transmitter
- Locates with radio frequencies (RF) and cathode protection (CP)
- Simultaneous use of 2 search frequencies (815 Hz & 82 kHz)
- Pin-pointing core-to-earth faults and sheath-to-earth faults when used with the optional A-Frame Ground Return Probe (GRD)
- Highly flexible thanks to Li-ion batteries
- Ergonomic design
- Easy to use

Technical data

Transmitter		Receiver	
Operating frequencies	815 Hz, 8 kHz, 33 kHz, 82 kHz, 2 kHz, 10 KHz, 491 Hz, 512 Hz, 640 Hz, 982 Hz, 1090 kHz, 8440 kHz, 9820 kHz, 32,768 kHz	Operating frequencies	
Load adjustment	5 – 25,000 ohm (automatic)	Active	815 Hz, 8 kHz, 33 kHz, 82 kHz, 2 kHz, 10 KHz, 491 Hz, 512 Hz, 640 Hz, 982 Hz, 1090 kHz, 8440 kHz, 9820 kHz, 32,768 kHz
Output power	10 power settings	Passive	50 Hz, 150 Hz, 250 Hz, 350 Hz, 450 Hz, 60 Hz, 180 Hz, 300 Hz, 420 Hz, 540 Hz; LiveSound™; Radio Frequency; Rectified CP 50 Hz & Rectified CP 60 Hz
Low & medium frequencies	0.2 W – 10 W	Operating modes	<ul style="list-style-type: none"> ▪ Peak method ▪ Pinpoint peak method ▪ Null method ▪ Simultaneous peak/null ▪ Tracing with right/left indication
High frequencies (above 44 kHz)	0.2 W – 1 W	Display indicators	Backlit segmented LCD bar graph, battery condition, continuous mode signal strength, depth measurement, line orientation, left/right line guidance, operating mode, volume level & function indicators
Display indicators	AC load assistance measurement, relative ohms, voltage, live voltage output, current output, power level, frequency, mode, battery indication alert, low battery indicator audio/visual with modulated low battery warning transmitted to receiver	Acoustic indication	Variable pitch & live sound, 4 volume selections including mute
Battery type	10.8 V, 10 Ah, 84.24 Wh lithium-ion battery	Current measurement	Display of current level of target and nearby conductors
Battery life		Gain adjustment	Left/right guidance mode: automatic All other operating modes: manual gain adjustment & automatic centering
Continuous operation	8 – 20 h (depending on load, frequency, power settings)	Signal strength	LCD bar display Digital absolute value 0 – 999
Intermittent	40 – 60 h	Dynamic range	126 dB
Dimensions (W x H x D)	Approx. 410 x 160 x 150 mm	Depth measurement	
Weight	2.7 kg	Digital	0.02 – 15 m with accuracy > 5% of depth
General		Manual	45° triangulation method
Safety and EMC	CE compliant in accordance with Low Voltage Directive (2014/35/EU) and EMC Directive (2014/30/EU)	Battery type	10.8 V, 5.2 Ah, 56.16 Wh lithium-ion battery
Degree of protection	IP65	Battery life	
Ambient temperature (operational)	-20°C to +55°C	Continuous operation	Approx. 30 h
Storage temperature	-20°C to +55°C	Intermittent	Approx. 82 h
Charger	100 – 240 V, 50/60 Hz, max. 0.35 A	Dimensions (W x H)	Approx. 770 x 240 mm
		Weight	1.9 kg

Standard delivery

- Receiver incl. lithium-ion battery
- Transmitter incl. lithium-ion battery
- Connection cable 3 m, with connection clips
- Earth spike
- Charger AC 100 – 240 V
- Car charger, 12 V
- Carrying bag for receiver and transmitter
- User manual

Accessories and options

- Flexicoupler, approx. 180 mm, 815 Hz to 82 kHz*
- Inductive rigid coupler, approx. 100 mm, 8 kHz to 82 kHz
- Inductive rigid coupler, approx. 150 mm, 8 kHz to 82 kHz
- STAFF A-Frame for pin-pointing sheath faults
- Headphones

* Frequencies below 8 kHz have a limited coupling performance

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