# 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

BAUR GmbH · Raiffeisenstraße 8, 6832 Sulz, Austria · T +43 (0)5522 4941-0 · F +43 (0)5522 4941-3 · headoffice@baur.at · www.baur.eu

## Technical data

| Transmitter | |
|---|---|
| Operating frequencies | 815 Hz, 8 kHz, 33 kHz, 82 kHz |
| Load adjustment | 5 – 25,000 ohm (automatic) |
| Output power | 10 power settings |
| Low & medium frequencies | 0.2 W – 10 W |
| High frequencies (above 44 kHz) | 0.2 W – 1 W |
| 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 |
| Power supply (battery types) | |
| Rechargeable | 10.8 V, 10 Ah, 84.24 Wh Li-ion battery |
| Non-Rechargeable | 12 D cell alkaline batteries |
| Battery life | |
| Continuous operation | 8 – 20 h (depending on load, frequency, power settings) |
| Intermittent | 40 – 60 h |
| Dimensions (W x H x D) | Approx. 410 x 160 x 150 mm |
| Weight | 2.7 kg with Li-ion battery<br>3.6 kg D-cell system |
| **General** | |
| Safety and EMC | CE compliant in accordance with Low Voltage Directive (2014/35/EU) and EMC Directive (2014/30/EU) |
| Degree of protection | IP65 |
| Ambient temperature (operational) | -20°C to +55°C |
| Storage temperature | -20°C to +55°C |
| Charger | 100 – 240 V, 50/60 Hz, max. 0.35 A |

| Receiver | |
|---|---|
| Operating frequencies | |
| Active | 815 Hz, 8 kHz, 33 kHz, 82 kHz,<br>2 kHz, 10 KHz,<br>491 Hz, 512 Hz, 640 Hz, 982 Hz,1.090 kHz,<br>8.440 kHz, 9.820 kHz, 32.768 kHz |
| Passive | 50 Hz, 150 Hz, 250 Hz, 350 Hz, 450 Hz,<br>60 Hz, 180 Hz, 300 Hz, 420 Hz, 540 Hz;<br>LiveSound™; Radio Frequency; Rectified CP 50 Hz & Rectified CP 60 Hz |
| Operating modes | ▪ Peak method<br>▪ Pinpoint peak method<br>▪ Null method<br>▪ Simultaneous peak/null<br>▪ Tracing with right/left indication |
| 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 |
| Acoustic indication | Variable pitch & live sound, 4 volume selections including mute |
| Current measurement | Display of current level of target and nearby conductors |
| Gain adjustment | Left/right guidance mode: automatic<br>All other operating modes: manual gain adjustment & automatic centering |
| Signal strength | LCD bar display<br>Digital absolute value 0 – 999 |
| Dynamic range | 126 dB |
| Depth measurement | |
| Digital | 0.02 – 15 m with accuracy > 5% of depth |
| Manual | 45º triangulation method |
| Battery type | |
| Rechargeable | 10.8 V, 5.2 Ah, 56.16 Wh Li-ion battery |
| Non-Rechargeable | 6 C cell alkaline batteries |
| Battery life | |
| Continuous operation | Approx. 30 h |
| Intermittent | Approx. 82 h |
| Dimensions (W x H) | Approx. 770 x 240 mm |
| Weight | 1.9 kg with Li-ion battery<br>1.9 kg C-cell system |

## Standard delivery

- Receiver incl. Li-ion battery
- Transmitter incl. Li-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 / 82 kHz
- Inductive rigid coupler, approx. 100 mm, 8 kHz to 82 kHz
- Inductive rigid coupler, approx. 150 mm, 8 kHz to 82 kHz
- GRP Ground return probe A-Frame for pin-pointing sheath faults

**Contact:**

BAUR GmbH (Headoffice Osterreich)
T +43 (0)5522 4941-0
headoffice@baur.at

BAUR Prüf- und Messtechnik GmbH
T +49 (0)2181 2979 0
vertrieb@baur-germany.de

BAUR GmbH (Branch UAE)
T +971 50 4440270
shibu.john@baur.at

BAUR France
T +33 (04) 69 98 27 27
infoFR@baur.eu

Baur do Brasil Ltda.
T +55 11 297 25 272
atendimento@baurdobrasil.com.br

BAUR Test Equipment Ltd. (UK)
T +44 (0)20 8661 0957
sales@baurtest.com

奥地利保尔公司上海代表处
电话 +86 (0)21 6133 1877
shanghaioffice@baur.at

BAUR Representative Office Hong Kong
T +852 2780 9029
office.hongkong@baur.at

BAUR representatives:
www.baur.eu > BAUR worldwide