

## 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 lines.

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.

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 STAFF A-Frame
- 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 and Rectified CP 60 Hz   |
| Low and medium frequencies        | 0.2 W – 10 W  | Operating modes       | <ul style="list-style-type: none"> <li>▪ Peak method</li> <li>▪ Pinpoint peak method</li> <li>▪ Null method</li> <li>▪ Simultaneous peak/null</li> <li>▪ Tracing with right/left indication</li> </ul>   |
| 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 and function indicators |
| Display indicators                | AC load assistance measurement, relative ohms, voltage, 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 and 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<br>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<br>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  |
| <b>General</b>                    |   | Battery type          | 10.8 V, 5.2 Ah, 56.16 Wh lithium-ion battery   |
| Safety and EMC                    | CE compliant in accordance with Low Voltage Directive (2014/35/EU) and EMC Directive (2014/30/EU)   | Battery life          |  |
| Degree of protection              | IP65  | Continuous operation  | Approx. 30 h   |
| Ambient temperature (operational) | -20°C to +55°C  | Intermittent          | Approx. 82 h   |
| Storage temperature               | -20°C to +55°C  | Dimensions (W x H)    | Approx. 770 x 240 mm   |
| Charger                           | 100 – 240 V, 50/60 Hz, max. 0.35 A  | 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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