

CL 20

BAUR cable locator



Simple, precise, economical

- Precise location device for cables and pipes
- State-of-the-art signal detection
- Intuitive operation – no special knowledge required

The CL 20 cable locator is used to locate the course and laying depth of underground cable routes and metal pipes.

Several active frequencies allow the operator to perform precise location under various conditions with minimal interference. In addition, the receiver also supports passive frequencies, which allows live cables to be located based on their naturally occurring electromagnetic fields. This enables tracing without a transmitter.

The transmitter permits galvanic and inductive signal coupling as well as the simultaneous coupling of two frequencies. When an optional signal coupler is connected, this facilitates tracing even for cable routes with earthing connections that are difficult to access. The functional scope of the CL 20 can also be extended with an optional exploring coil for cable identification and the optional STAFF A-Frame for sheath fault location.

Features

- Wide range of frequencies: Use of multiple active and passive frequencies to adapt to different location conditions, including the ability to use two frequencies simultaneously
- High-performance transmitter:
 - 10 W transmitter for reliable galvanic and inductive signal coupling
 - Automatic impedance adjustment maximises the range with minimal energy consumption
- A variety of location methods for different location conditions:
 - Peak method
 - Pinpoint peak method
 - Minimum method
 - Left/right indication
 - Combination of left/right indication with pinpoint peak method, peak method, or minimum method
- Comprehensive display functions:
 - Optical display and acoustic output of the signal strength
 - Continuous depth and current measurement
 - High-contrast LCD display with background lighting
- Extended location options:
 - Location with radio frequencies (RF) and cathodic protection (CP)
 - Pin-pointing of faults due to earth contact and cable sheath faults with optional STAFF A-Frame
 - Cable identification with optional exploring coil
- User-friendly: Ergonomic design and easy operation, supported by a durable lithium-ion battery

Technical data

Transmitter		Receiver	
Operating frequencies	200 Hz, 273 Hz, 480 Hz, 491 Hz, 512 Hz, 577 Hz, 640 Hz, 815 Hz, 982 Hz, 1 kHz, 2 kHz, 4 kHz, 8 kHz, 8.440 kHz, 9.820 kHz, 10 kHz, 29 kHz, 33 kHz, 65 kHz, 82 kHz, 83 kHz, 93 kHz, 131 kHz	Operating frequencies	
Load adjustment	5 – 25,000 ohm (automatic)	Active	200 Hz, 273 Hz, 480 Hz, 491 Hz, 512 Hz, 577 Hz, 640 Hz, 815 Hz, 982 Hz, 1 kHz, 2 kHz, 4 kHz, 8 kHz, 8.440 kHz, 9.820 kHz, 10 kHz, 29 kHz, 33 kHz, 65 kHz, 82 kHz, 83 kHz, 93 kHz, 131 kHz
Output power	10 power levels	Passive	50 Hz, 150 Hz, 250 Hz, 350 Hz, 450 Hz, 60 Hz, 180 Hz, 300 Hz, 420 Hz, 540 Hz, radio frequency, cathodic protection (CP) 50 Hz and 60 Hz
Low and medium frequency range	0.2 W – 10 W	Methods	<ul style="list-style-type: none"> ▪ Peak method ▪ Pinpoint peak method ▪ Minimum method ▪ Left/right indication ▪ Combination of left/right indication with pinpoint peak method, peak method, or minimum method
High frequency range (over 44 kHz)	0.2 W – 1 W	Display indicators	Absolute and relative signal strength, battery charge status, laying depth, relative current strength, route orientation, directional arrows, method
Display indicators	Relative resistance, voltage, current, power level, operating frequency, battery charge status	Acoustic signal	Variable pitch (3 steps), mute function
Battery type	10.8 V, 7.8 Ah, 84.24 Wh lithium-ion battery	Amplification adjustment	Left/right indication: automatic All other methods: manual (automatic centring of the bar display)
Battery life		Signal strength	Relative: LCD bar display Absolute: 0 – 999
Continuous operation	8 – 20 h (depending on load, operating frequency, power level)	Dynamic range	126 dB
Short-time operation	40 – 60 h	Depth measurement	0.02 – 15 m
Dimensions (W x H x D)	Approx. 410 x 160 x 150 mm	Battery type	10.8 V, 5.2 Ah, 56.16 Wh lithium-ion battery
Weight	2.7 kg	Battery life	
Degree of protection	IP65	Continuous operation	Approx. 30 h
General		Short-time operation	Approx. 82 h
Safety and EMC	CE-compliant in accordance with Low Voltage Directive (2014/35/EU) and EMC Directive (2014/30/EU)	Dimensions (W x H)	Approx. 770 x 240 mm
Ambient temperature (operational)	-20°C to +55°C	Weight	1.9 kg
Storage temperature	-20°C to +55°C	Degree of protection	IP65 (when cover is closed)
Charger	100 – 240 V, 50/60 Hz, max. 0.35 A		

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

- Inductive signal coupler (rigid), approx. 100 mm, 8 kHz to 82 kHz
- Inductive signal coupler (rigid), approx. 150 mm, 8 kHz to 82 kHz
- STAFF A-Frame for sheath fault location
- Headphones
- Exploring coil



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