

CARLOC Cable and Route Location System



- High-contrast LCD display, ideal for day and night
- Directional signal to clearly identify the target line
- IP 65 rating, excellent performance in dusty, dirty or wet jobsite conditions
- Choose from 100 frequencies via user-configurable software

THE PLUS VERSION ALSO PROVIDES:

- Bluetooth® to connect a GPS and for data transfer
- Depth measurement also sideways when not above the target line
- Ambient Interference Measurement (AIM) technology to scan the best frequency
- Ability to change the frequency and power level from the receiver and switch leads between utilities when using dual output

DESCRIPTION

The CARLOC® Utility Locating System has accuracy-enhancing features you can't get on other locators. Ambient noise technology automatically recommends the best frequency. An available 12W transmitter drives signals farther down large, direct-buried utilities. The CARLOC® locating system can provide the depth and horizontal distance to the utility. (only for PLUS Version)



CARLOC

Cable and Route Location System

TECHNICAL DATA*

RECEIVER

Dimensions

Height	691 mm
Length	325 mm
Width	122 mm
Operating weight	2.2 kg

Performance characteristics

Frequency range	50 Hz – 200 kHz
Sensitivity	1µA at 1 m and 33kHz
Dynamic range	145 dB rms/√Hz
Selectivity	117 dB
Depth, max	6m
Overload protection	30 dB (automatic)

Depth accuracy

Line	±5% to 3 m
Sonde	±5% to 3 m
Passive	±10% to 3 m

Features

Programmable frequencies	100 selectable frequencies from 256 Hz to 83 kHz
Transflective graphical LCD	
Current direction measurement	frequency from 256 Hz to 10 kHz
Offset depth (PLUS)	Measures horizontal and vertical distance to the line
Interference scan (PLUS)	Measures interference and recommends best frequency
Fault location	263 Hz and 526 Hz
Power and cathodic protection frequencies	50 Hz, 60 Hz, 100 Hz, 120 Hz, 150 Hz, 180 Hz
Rx/Tx remote communications (PLUS)	Remotely control transmitter frequency, power level and more by the receiver
Bluetooth® GPS connectivity (PLUS)	Capture mapping information
Line direction compass with proportional L/R arrow guidance	
PC configuration	Software updates and configuration can be done by user

Environmental

Operating temperature	-20 ... 50°C
Storage temperature	-32 ... 70°C
Protection class	IP 65

Battery

Batteries	2 D-Cell (LR20) or commercially available NiMH
Battery life	30 hrs continuous, 70 hrs intermittent

TRANSMITTER

Dimensions

Height	254 mm
Length	305 mm
Width	198 mm
Operating weight	3.5 kg

Performance characteristics

Frequency range	256 Hz – 200 kHz
Power	5 or 12 W
Current	max. 500 mA
Voltage	max. 65 V _{RMS}

Features

Programmable frequencies	100 selectable frequencies from 256 Hz to 83 kHz
High contrast graphical LCD	
Fault location	263 Hz and 526 Hz
Language support	19 user selectable languages
Rx/Tx remote communications (PLUS)	Remotely control transmitter frequency, power level and more by the receiver
PC configuration	Software updates and configuration can be done by user
Induction	16 frequencies from 8 kHz – 200 kHz
Dual output (PLUS)	Remotely select active output
Environmental	
Operating temperature	-20 ... 50°C
Storage temperature	-32 ... 70°C
Protection class	IP 65

Battery

Batteries	10 D-Cell (LR20) or optional Li-ion battery pack
Battery life	100 hrs with alkaline/80 hrs with Li-ion battery pack

CARLOC

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MODEL COMPARISONS	CARLOC	CARLOC PLUS
Number of frequencies	Up to 100	Up to 100
Ability to add / configure frequencies Uses configuration software to add/subtract frequencies.	✓	✓
Current direction display Gives the direction of the current to help identify target line.	✓	✓
Bluetooth® connection For GPS devices	-	✓
Ambient noise technology Measures noise and suggests the best frequencies to use.	-	✓
Receiver / transmitter communication Remotely control the transmitter from the receiver.	-	✓
Offset depth Displays depth and offset distance when target line is obscured.	-	✓
Dual output with optional dual leads Connects to two target lines at one time – switch from one lead to the other from the receiver.	-	✓
Battery life Receiver 30 hours, transmitter 100 hours.	✓	✓

ORDERING INFORMATION					
Choose	↓	Transmitter	Order No.	Receiver (suitable for Transmitter)	Bag (for Receiver & Transmitter)
CARLOC 5 Watt		CARLOC 5 W	102-1766	→ 102-1765	→ 222-10423
		CARLOC 5 W with Li-Ion Set	1013366	→ 102-1765	→ 222-10423
		CARLOC PLUS 5 W	102-1767	→ 102-1764	→ 222-10423
		CARLOC PLUS 5 W with Li-Ion Set	1013367	→ 102-1764	→ 222-10423
CARLOC 12 Watt		CARLOC 12 W	102-1768	→ 102-1765	→ 222-10423
		CARLOC 12 W with Li-Ion Set	1013368	→ 102-1765	→ 222-10423
		CARLOC PLUS 12 W	102-1769	→ 102-1764	→ 222-10423
		CARLOC PLUS 12 W with Li-Ion Set	1013369	→ 102-1764	→ 222-10423

Optional	Order No.
Mains adapter to transmit onto live LV lines to 480 V	220-2832
Induction clamp 5 inch (12.7 cm)	220-2829
Induction clamp 7 inch (17.8 cm)	220-2830
Broadband clamp 3 inch (7.6 cm) from 263 Hz to 5 kHz	220-2831
Fault probe (A-frame for sheath fault location)	220-2834
Bag for Fault Probe	222-4857
Stethoscope (Cable selection sensor with flex-rod) for cable identification	220-2835
EML Boot - Add-on marker locator (Europe)	220-2833
Dual direct connect leads for connecting two cables simultaneously, only for PLUS models.	222-4863
MFL TX 12 V Adapter for vehicle electrical system	222-3808
Power supply adapter 220-240V. For mains operation in combination with the 12V adapter	90035390

*We reserve the right to make technical changes.

SALES OFFICE

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