

Leica DD SMART utility locator solution

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work simpler



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DD SMART Locators

Technical Specifications



| MODE | DD220 SMART | DD230 SMART |
|---------------------------|---|---|
| Power | 50 / 60 Hz mains electrical and harmonics | 50 / 60 Hz mains electrical and harmonics |
| Radio | 15kHz to 60kHz | 15kHz to 60kHz |
| Auto | Power, Radio, 33kHz | Power, Radio, 33kHz |
| Transmitter Modes | 131.072 (131) kHz 32.768 (33) kHz 8.192 (8) kHz | 131.072 (131) kHz 32.768 (33) kHz 8.192 (8) kHz 512 Hz 640 Hz |
| Depth Range | Line 0.1m to 5m Line 4 inches to 16.4 feet Sonde 0.1m to 7m Sonde 4 inches to 23 feet | Line 0.1m to 7m 4 inches to 23 feet Sonde 0.1 to 10m Sonde 4 inches to 32.8 feet |
| Depth Accuracy* | 5% | 5% |
| Bluetooth | Class 2 BLE dual mode module Bluetooth Classic 2.1 Bluetooth 4.0 (LE) | Class 2 BLE dual mode module Bluetooth Classic 2.1 Bluetooth 4.0 (LE) |
| GPS** | Chipset (1): u-blox®GPS Receiver Type: GPS L1C/A, SBAS L1C/A, QZSS L1C/A, GLONASS L1OF, BeiDou B1 Accuracy (2): Horizontal Position 2.5 m Autonomous, 2.0 m SBAS, CEP Start time: Cold 45 s typical, Aided 7 s typical, Hot 1 s typical | Chipset (1): u-blox®GPS Receiver Type: GPS L1C/A, SBAS L1C/A, QZSS L1C/A, GLONASS L1OF, BeiDou B1 Accuracy (2): Horizontal Position 2.5 m Autonomous, 2.0 m SBAS, CEP Start time: Cold 45 s typical, Aided 7 s typical, Hot 1 s typical |
| Memory Capacity | 8 GB internal memory | 8 GB internal memory |
| Environmental Standard | IP66 | IP66 |
| Operating Temperature | -20 °C to +50 °C -4 °F to +122°F | -20 °C to +50 °C -4 °F to +122°F |
| Battery | 7.4V Rechargeable Li - Ion | 7.4V Rechargeable Li - Ion |
| Battery operating time*** | 15 h | 15 h |
| Dimensions (HxWxD) | 765x290 x93mm 30.12 x11.42x3.66 inches | 765x290 x93mm 30.12 x11.42x3.66 inches |
| Weight with batteries | 2.7Kg 5.95 lbs | 2.7Kg 5.95 lbs |

*Depth to an undistorted signal

** (1) All data/information according to manufacturer u-blox®GPS; Leica Geosystems does not assume any liability whatsoever for such information.

(2) Accuracy is dependent upon various factors including atmospheric conditions, multipath, obstructions, signal geometry and number of tracked satellites.

*** Constant use at 20°C/68°F

DA Signal Transmitters

Technical Specifications



| MODE | DA220 | DA230 |
|---|---|---|
| Induction Mode Frequencies | 32.768 (33) kHz / 8.192 (8) kHz | 32.768 (33) kHz / 8.192 (8) kHz |
| Power Output | Up to 1 Watt max. | Up to 1 Watt max. |
| Direct Connection Mode Frequencies | 131.072 (131) kHz / 32.768 (33) kHz / 8.192 (8) kHz | 131.072 (131) kHz / 32.768 (33) kHz / 8.192 (8) kHz / 512 Hz / 640 Hz |
| Power Output* 1 Watt Model 3 Watt Model | Up to 1 Watt max. Up to 3 Watt max. | Up to 1 Watt max. Up to 3 Watt max. |
| Environmental Standard | IP67 | IP67 |
| Operating Temperature | 20 °C to +50 °C / -4 °F to +122°F | 20 °C to +50 °C / -4 °F to +122°F |
| Storage temperature | -40°C to +70°C, / -40°F to +158°F | -40°C to +70°C, / -40°F to +158°F |
| Battery | 7.4V Rechargeable Li-ion | 7.4V Rechargeable Li-ion |
| Battery operating time ** | 15 h | 15 h |
| Dimensions (HxWxD) | 250 x 206 x 113 mm / 9.84 x 8.11 x / 4.45 inches | 250 x 206 x 113 mm / 9.84 x 8.11 x / 4.45 inches |
| Weight with batteries | 2.38Kg / 5.25 lbs | 2.38Kg / 5.25 lbs |

*Utility impedance of 300 Ohms

**Defined at 20°C (77°F) power level 2



TRACE RODS

Used with the DD Locators and DA Signal Transmitter to trace the route of non metallic drains, ducts or pipes.
Trace Rod 50M / Trace Rod 80M



TRANSMITTER CLAMPS

Used with the DA Signal transmitter to apply a trace signal to utilities such as telecom cables, power cables and pipes.
Transmitter Clamp 100mm (4") / Transmitter Clamp 80mm (3.15")



PROPERTY PLUG CONNECTOR

Used with the DA Signal transmitter to apply a trace signal to residential electrical supplies

SONDES

Used to trace the route of drains, sewers plastic pipes and ducts. Available in many sizes to cover a wide range of applications.



Mini Sonde 33

18mm (0.7") diameter with a 33kHz output.
Working range 7 metres (23ft)



Duct Sonde 33

24mm (0.95") diameter with a 33kHz output.
Working Range 5m (16.4ft)



Midi Sonde 8/33

38mm (1.5") diameter with an 8kHz or 33kHz output.
Working Range 5m (16.4ft)



Clamp Sonde 33

40mm (1.57") diameter with a 33kHz output. Clamp sonde clamps onto a 12mm (0.74inch) flexible rod.
Working range 5m (16.4ft)



Maxi Sonde 8/33

55mm (2.17") diameter with an 8kHz or 33kHz output. Working range 12m (39.4ft)

Leica Geosystems – when it has to be right

Revolutionising the world of measurement and survey for nearly 200 years, Leica Geosystems is the industry leader in measurement and information technologies. We create complete solutions for professionals across the planet. Known for innovative product and solution development, professionals in a diverse mix of industries, such as surveying and engineering, building and heavy construction, safety and security, and power and plant trust Leica Geosystems for all their geospatial needs. With precise and accurate instruments, sophisticated software, and trusted services, Leica Geosystems delivers value every day to those shaping the future of our world.

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