

RD8200[®] SG

Locator Specification

Precision locators



RD8200SG Locator Specification

1. Product Summary

| | |
|--------------------------|---|
| 1.1 Product Descriptions | Multi-purpose Precision Locator Cable and Pipe Locator Locate System Receiver Multi-function Precision Locator |
| 1.2 Intended Use | Locating and mapping the position/path of buried cables and pipes Detecting and pinpointing insulation faults on buried cables and pipes Creating survey records of buried cables and pipes locations |
| 1.3 Standard Equipment | Locator with lithium-ion battery pack Charger and mains lead Phone holder USB lead User Guide Rechargeable battery instruction sheet |

2. Performance

| | |
|--|--|
| 2.1 Sensitivity | 6E-15 Tesla 5 μ A at 1 meter (33kHz) |
| 2.2 Dynamic range | 140dB rms/VHz |
| 2.3 Selectivity | 120dB/Hz |
| 2.4 Depth measurement precision ¹ | \pm 3% |
| 2.5 Locate accuracy | \pm 5% of depth |
| 2.6 Active Locate filter bandwidth | \pm 3Hz, 0 < 1kHz \pm 10Hz, \geq 1kHz |
| 2.7 Start-up time | <2.5 seconds |
| 2.8 Maximum depth readout ² | Metric: Cable / Pipe: 30m Sonde: 19.5m Imperial: Cable / Pipe: 98' Sonde: 64' |

3. GNSS

| | |
|----------------------------|---|
| 3.1 Service Support | <ul style="list-style-type: none">• GPS: L1C/A, L2C• GLONASS: L1OF, L2OF• Galileo: E1B/C, E5b |
| 3.2 Convergence time RTK | < 10 sec |
| 3.3 Position accuracy RTK | 0.01m + 1ppm CEP |
| 3.4 Acquisition | Cold starts 24s Aided starts and reacquisition 2s <i>Timings stated are best case and dependent upon atmospheric conditions, baseline length, GNSS antenna, multipath conditions, satellite visibility and geometry</i> |
| 3.5 SBAS | Augmentation Systems (where available) |
| 3.6 RTK Correction Service | NTRIP and RTCMv3.X messaging standards |
| 3.7 GNSS settings | RTK/Reset/Off |
| 3.8 GNSS Antenna | Integrated, precision tuned helical antenna Built-in low-noise amplifier (LNA) |
| 3.9 LED Indicator | Solid – RTK fix Flashing – RTK float Off – all other conditions |

4. Locate Functions

| 4.1 Active Locate Modes | <p>Five:</p> <ul style="list-style-type: none"> • Peak • Peak+™ (choice of combined Peak & Guidance or Peak & Null) • Guidance • Broad Peak • Null | | | | | | | | | | | | | | | | | | |
|--|---|---------------|---------------|---------------|---------|-------|-------|-----|--------|--------|-----|--------|--------|-----|--------|--------|-----|--------|--------|
| 4.2 Gain control | <p>Guidance Mode: Automatic</p> <p>Other modes: Manual gain using “+” or “-“ with one touch to return to center (50% of Full Scale)</p> | | | | | | | | | | | | | | | | | | |
| 4.3 Custom locate frequencies | Up to 5 additional frequencies in the range 50Hz to 1kHz at 1Hz resolution | | | | | | | | | | | | | | | | | | |
| 4.4 Active locate frequencies | <p>21 Frequencies:</p> <p>ELF (98/128Hz), 512Hz, 570Hz, 577Hz, 640Hz, 760Hz, 870Hz, 920Hz, 940Hz, 1090Hz, 1450Hz, 4096Hz, 8kHz, 8440Hz, 9820Hz, 33kHz, 65kHz, 82kHz, 83kHz, 131kHz and 200kHz*</p> | | | | | | | | | | | | | | | | | | |
| 4.5 Sonde Frequencies | <p>4 Frequencies:</p> <p>512Hz, 640Hz, 8kHz and 33kHz</p> | | | | | | | | | | | | | | | | | | |
| 4.6 Fault Find | <p>8KFF and CDFF</p> <p>Locate insulation sheath faults on pipes and cables to 10cm / 4" accuracy using the accessory A-Frame and a compatible transmitter</p> | | | | | | | | | | | | | | | | | | |
| 4.7 Current Direction™ (CD) Signal Pairs | <p>14 CD Pairs:</p> <p>219.9/439.8Hz, 256/512Hz, 280/560Hz, 285/570Hz, 320/640Hz, 380/760Hz, 460/920Hz, 4096/8192Hz, 680/340Hz (INV), 800/400Hz (INV), 920/460Hz (INV), 968/484Hz (INV), 1168/584Hz (INV), 1248/624Hz (INV)</p> <p>Confirm operator is following the target pipe or cable with CD arrows and a compatible transmitter</p> | | | | | | | | | | | | | | | | | | |
| 4.8 Passive Locate Modes | <ul style="list-style-type: none"> • Power • Radio • CPS – cathodic protection system • CATV – Cable TV • Passive Avoidance – simultaneous locate of power and radio | | | | | | | | | | | | | | | | | | |
| 4.9 Power Filters™ function | <p>Switch out of sensitive Power Mode to locate on any of 5 individual mains harmonic frequencies:</p> <table border="1" data-bbox="491 1167 1495 1409"> <thead> <tr> <th>HARMONIC</th> <th>50 Hz regions</th> <th>60 Hz regions</th> </tr> </thead> <tbody> <tr> <td>Primary</td> <td>50 Hz</td> <td>60 Hz</td> </tr> <tr> <td>3rd</td> <td>150 Hz</td> <td>180 Hz</td> </tr> <tr> <td>5th</td> <td>250 Hz</td> <td>300 Hz</td> </tr> <tr> <td>7th</td> <td>350 Hz</td> <td>420 Hz</td> </tr> <tr> <td>9th</td> <td>450 Hz</td> <td>540 Hz</td> </tr> </tbody> </table> | HARMONIC | 50 Hz regions | 60 Hz regions | Primary | 50 Hz | 60 Hz | 3rd | 150 Hz | 180 Hz | 5th | 250 Hz | 300 Hz | 7th | 350 Hz | 420 Hz | 9th | 450 Hz | 540 Hz |
| HARMONIC | 50 Hz regions | 60 Hz regions | | | | | | | | | | | | | | | | | |
| Primary | 50 Hz | 60 Hz | | | | | | | | | | | | | | | | | |
| 3rd | 150 Hz | 180 Hz | | | | | | | | | | | | | | | | | |
| 5th | 250 Hz | 300 Hz | | | | | | | | | | | | | | | | | |
| 7th | 350 Hz | 420 Hz | | | | | | | | | | | | | | | | | |
| 9th | 450 Hz | 540 Hz | | | | | | | | | | | | | | | | | |
| 4.10 Information displayed | <ul style="list-style-type: none"> • Signal strength – moving bar graph and numeric value • Mode indication (Peak, Null, Guidance, Broad Peak, Peak+ with option of Guidance arrows or Null arrows) • Line or Sonde locate type • Proportional left/right indication • Compass: full 360° line direction indicator • Accessories in use indication • Accessory specific custom screen • Depth and current readout (Line location) • Depth readout (Sonde location) • Gain level (in dB) • Frequency selected • Battery condition • Speaker volume • Bluetooth® wireless technology status • GNSS satellites in view • GNSS status • Configuration menu and submenus • Software version • Last calibration date • Survey measurement counter • Current Direction mode indicator • Current Direction arrows • Fault Find mode indicator • Transmitter communication status • Transmitter standby status • StrikeAlert® warning • Overload warning • Swing warning | | | | | | | | | | | | | | | | | | |

*Only available on FCC models

| | |
|---------------------------------|---|
| 4.11 Audio output tones | <p>Volume level: VOL0, VOL1, VOL2, VOL3, VOL4 and VOL5</p> <p>Audio Level Pitch: Low and High</p> <p>Audio feedback for menu navigation</p> <p>StrikeAlert audio warning Swing audio warning</p> <p>Power / Passive Avoidance / Radio modes: Real Sound derived from detected electromagnetic signal</p> <p>Peak / Peak+ modes and CPS / CATV modes: Synthesized audio tone proportional to signal strength</p> <p>Guidance mode: Continuous tone when locator is to the left of target, intermittent tone when to the right of target</p> <p>Null mode: Synthesized Audio tone proportional to signal strength. Low pitch to left of target, high pitch to right of target</p> |
| 4.12 Accessory locate functions | <p>Locator clamps: Used to identify individual target cable(s) in a bundle or cabinet using signal strength read-out</p> <p>Stethoscopes: Used to identify individual target cable(s) in a bundle or confined space such as a cabinet using signal strength read-out</p> <p>CD / CM clamp: Used to measure locate current and to confirm target cable using Current Direction Please refer to Section 14 Compatible Accessories – for a complete list of locator accessories</p> |

5. Locate Function Enhancements

| | |
|--|--|
| 5.1 StrikeAlert | Audio and visual warning when a cable or pipe less than 30cm deep is detected. Operates in Active and Passive locating modes |
| 5.2 Haptic Vibration | Handle vibrates when StrikeAlert, Swing and Overload warnings activated |
| 5.3 Swing Warning | Audio and visual warning when the user is swinging the locator excessively |
| 5.4 Dynamic Overload Protection™ | <p>40dB, automatic</p> <ul style="list-style-type: none"> Automatically manages the system gain to compensate for strong signals e.g. from mains power or substations, to enable accurate locating |
| 5.5 Overload warning | If the RD8200 becomes overloaded, users will be alerted by a flashing mode icon. Both the depth and current measurements will be disabled in the event of an overload. |
| 5.6 Current Direction (CD) | <ul style="list-style-type: none"> Measures the direction of current flowing in buried pipes or cables to ensure that an operator is able to identify and follow the target utility Provides operator with arrows indicating the direction of current flowing in the located pipe or cable to confirm that they are following the target utility |
| 5.7 iLOC® | <p>Metric: Remote transmitter control from up to 450m away³</p> <p>Imperial: Remote transmitter control from up to 1400' away³</p> <p>Control transmitter frequency, power level and SideStep</p> |
| 5.8 SideStep® | <p>Enables locating where other signals are interfering, and without compromising the optimum locate frequency</p> <p>Remotely shifts the locate and transmitter frequency by several Hz, out of the bandwidth of other locate signals that may be interfering with the locate</p> |
| 5.9 Simultaneous depth and current readout | Both utility depth and locate signal current are displayed simultaneously, giving the operator more information to help them to follow the target utility |
| 5.10 Survey Measurements | <p>Store up to 1,000 survey points within the locator, and append GNSS data from internal GNSS</p> <p>Export data immediately or as a batch over Bluetooth</p> |
| 5.11 Fault Find | <p>Apply a Fault Find signal with a Tx-5 and Tx-10 transmitter, then use an accessory A-Frame to detect and pinpoint insulation faults</p> <p>Fault find accuracy:</p> <p>Metric: 100mm</p> <p>Imperial: 4"</p> |
| 5.12 4kHz locate frequency and 4kHz CD | <p>Designed for tracing higher impedance lines such as twisted pair telecoms or street lighting over distance</p> <p>Combine with Current Direction to help trace the target utility through dense or complex infrastructure</p> |
| 5.13 Peak+ mode | Use the accurate Peak bargraph, and add either proportional Guidance arrows for faster locating, or Null arrows to check for the presence of distortion |
| 5.14 Integrated GNSS option | Faster surveying using integrated GNSS – no need for a separate hand-held device |

6. Configurability

| | |
|--------------------------------------|--|
| 6.1 Phone operating system | Android™ iOS® |
| 6.2 Option selection | All options can be enabled or disabled on the locator or using the RD Manager PC software |
| 6.3 Languages supported | Fourteen: English, French, German, Dutch, Polish, Czech, Slovakian, Spanish, Portuguese, Swedish, Italian, Turkish, Russian, Hungarian |
| 6.4 Mains power network options | 50 Hz or 60 Hz |
| 6.5 Mode selection | All locate modes can be individually enabled or disabled |
| 6.6 Active frequency selection | All active frequencies available can be individually enabled or disabled |
| 6.7 Passive mode selection | All passive modes can be individually enabled or disabled |
| 6.8 StrikeAlert | Enable / disable |
| 6.9 Swing warning | Enable / disable |
| 6.10 Haptic vibration | Enable / disable |
| 6.11 Peak+ arrow selection | Guidance arrows or Null arrows Selected using the locator menu or with a long press of the antenna key |
| 6.12 iLOC Connectivity | On / Off |
| 6.13 Data export protocols supported | PPP / choice of 3 ASCII formats. Optionally append positional data |
| 6.13 Time / date setting | Correct or update locator real-time clock using the RD Manager PC software or GNSS signals |
| 6.15 CD Reset | Reset CD phase analysis with a single long press of the frequency key |
| 6.16 Audio | Set audio tone frequency level high or low |

7. Connectivity

| | |
|--|---|
| 7.1 Wireless connections | 2 x Bluetooth 2.0 – SPP profile, class 1 2 x Bluetooth Low Energy 5.0 |
| 7.2 iLOC remote transmitter control range ³ | Metric: Up to 450m Imperial: Up to 1400' |
| 7.3 iLOC remote transmitter control functions | Set transmitter frequency Set transmitter power output level Transmitter standby SideStep |
| 7.4 Wired connections | <p>USB Data Port: USB 3.1 Type-C socket – Used as a USB 2.0 slave port connection for data transfer and configuration to a PC. A male USB C to male USB A lead included as standard.</p> <ul style="list-style-type: none"> • Rated voltage 48V ac/dc. • Rated current per contact 1.25A for power and 0.25A for data signals. • Dielectric Strength 100V ac. • Insulation resistance >100Mohm. <p>Accessory Port: Neutrik (NeutriCON) RP8 way female – Bespoke connection for Radiodetection locator accessories only.</p> <ul style="list-style-type: none"> • Power supply for accessory 6.6V dc (+/- 3.3V dc). • Rated voltage 50V ac. • Rated current per contact 7.5A (solder), 5A (crimp). • Dielectric Strength 1500V dc. • Insulation resistance >500Mohm. <p>3.5mm Stereo jack: Connect wired headphones.</p> |

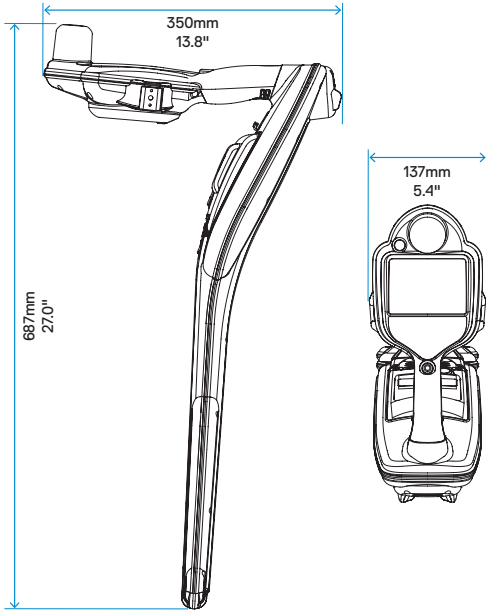
8. Data capabilities

| | | | |
|--|---|--|---|
| 8.1 Usage-logging memory | 4 Gb | | |
| 8.2 Usage-logging capacity | Over 500 days, measured at 8 hours use per day | | |
| 8.3 Usage-logging capture rate | 1/second | | |
| 8.4 Usage parameters logged | Serial number Log reference and id Operating mode Locate frequency Sonde/line Signal strength Gain setting Depth Current Accessory in use Antenna mode Arrows readout Compass angle CD phase Overload status Dynamic Overload Protection Status | Keys pressed Audio status Volume Menu in use Battery status User warnings status StrikeAlert status Bluetooth status Fault find arrow Sidestep status Language Depth units Power setting Compass setting CD reset status Swing angles Utility Date and time | Latitude Longitude Altitude GNSS mode GNSS date and time Horizontal Dilution Geoid DGPS Time and ID Geoid Units GNSS fix Number of satellites Altitude units Time reference |
| 8.5 Survey measurement capacity | Up to 1,000 data records | | |
| 8.6 Survey measurement data captured | Standard data: Log # Survey Reference Antenna Mode Depth Current (mA) Frequency in use (Hz) Sonde/Line Signal Strength (dBµV and %) Signal Strength (%) Gain Setting (dB) Compass (deg) Arrow readout CD Phase (deg) Accessory Type Battery level Volume Overload Flag Date and Time | GNSS data: Position Source Type Horizontal Accuracy Vertical Accuracy RTK fix time RTK correction age VDOP PDOP HDOP GPS day GPS month GPS year GPS UTC value Latitude Longitude GPS Fix Number of Satellites Altitude Altitude Units Geoid Geoid Units DGPS Time DGPS ID Time Indicator | |
| 8.7 Survey measurement export options via RD Manager™ Online | Bluetooth – ‘live,’ per measurement Bluetooth – batch export | | |
| 8.8 Bluetooth survey measurement data protocol options | PPP ASCII (choice of 3 formats) | | |

9. Power options

| | |
|--|--|
| 9.1 Rechargeable | Custom Lithium-Ion (Li-Ion) battery pack |
| 9.2 Battery run-time (continuous) ⁴ | Li-Ion pack: 18 hours |
| 9.4 Charging options (Li-Ion pack) | Mains charger: 100-250 Volts AC, 50/60 Hz Automotive charger: 12-24V DC |
| 9.5 Charging time (Li-Ion pack) | 3 hours to 80% from empty with maintenance trickle charging thereafter |

10. Physical Characteristics

| | |
|---|---|
| 10.1 Design | Ergonomic, balanced and lightweight design for comfortable use during extended surveys |
| 10.2 Construction | Injection Molded ABS Plastic |
| 10.3 Weight | Lithium-Ion battery pack fitted: Metric: 2.4kg Imperial: 5.2lb |
| 10.4 Ingress Protection rating | IP65 Protected against dust ingress and jets of water ⁵ applied from any direction |
| 10.5 Display type | High contrast custom made monochrome LCD |
| 10.6 Audio options | Built-in waterproofed speaker 3.5mm headphone socket |
| 10.7 Operating temperature ⁶ | Metric: -20°C to 50°C Imperial: -4°F to 122°F |
| 10.8 Storage temperature | Metric: -35°C to 70°C Imperial: -31°F to 158°F |
| 10.9 Unit dimensions | Metric: 687mm x 350mm x 137mm Imperial: 27.0" x 13.8" x 5.4"  |
| 10.10 Shipping dimensions | Metric: 737mm x 277mm x 396mm Imperial: 29.0" x 10.9" x 15.6" |
| 10.11 Shipping weight | Includes: <ul style="list-style-type: none"> • RD8200SG with lithium-ion battery fitted • Mains charger + lead • RD8200SG Bag • Phone holder • User guide • RD8200SG box Metric: 5.5kg Imperial: 12.1 lb |

11. RD Manager Online Supporting PC Software

| | |
|-------------------------------------|--|
| 11.1 Operating System Compatibility | Microsoft® Windows® 10 64-bit |
| 11.2 Locator system compatibility | Radiodetection RD7200, RD8200 and RD8200SG Precision Locators |
| 11.3 Functions | <ul style="list-style-type: none"> • Locator configuration • eCert® remote calibration certification • Factory calibration certificate retrieval • Usage-logging data collation and export • User account management • Locator software update • Survey Measurement retrieval |
| 11.4 Data export formats | <p>.csv for database and spreadsheet applications</p> <p>.xls / .xlsx for Microsoft® Excel®</p> <p>.kml for Google Earth™</p> |

12. Warranty and Maintenance

| | |
|---|---|
| 12.1 Manufacturer's warranty duration | 3 years standard, on registration |
| 12.2 Recommended calibration and maintenance schedule | Annual, or at the beginning / end of a lease period if earlier |
| 12.3 eCert remote calibration | <ul style="list-style-type: none"> • Remote calibration certification using an internet connection to Radiodetection • Recommended schedule: annual, or at the beginning / end of a lease period |
| 12.4 CALSafe® | <ul style="list-style-type: none"> • Can be enabled to prevent the locator operating when beyond a defined calibration / maintenance schedule • Disabled by default • 30-day countdown to calibration due date |
| 12.5 Enhanced Self-Test | <p>On-unit</p> <p>Applies test signals to locate circuitry to confirm correct operation, as well as the typical tests for screen and DSP functions.</p> <p>Recommended schedule: weekly, or before each use.</p> |
| 12.6 Storage recommendation | <p>Store in a clean and dry environment.</p> <p>Ensure all terminals and connection sockets are clean, free of debris and corrosion and are undamaged</p> |
| 12.7 Cleaning | <p>Clean with a soft, moistened cloth.</p> <p>Do not use</p> <ul style="list-style-type: none"> • Abrasive materials or chemicals • High pressure jets of water <p>If using this equipment in foul water systems or other areas where biological hazards may be present, use an appropriate disinfectant.</p> |

13. Certification and Compliance

| | |
|--|--|
| <p>13.1 Standards</p> <p><i>CE Safety:</i></p> <p><i>CE EMC:</i></p> <p><i>CE RF:</i></p> <p><i>CE SAR:</i></p> <p><i>ENV (Environmental):</i></p> | <p>EN 61010-1:2010</p> <p>ETSI EN 301 489-3 (V1.6.1) ETSI EN 301 489-17 (V2.2.1) EN 61326-1:2013</p> <p>ETSI EN 300 328V2.2.2 (2019-07) ETSI EN 300 413 V1.2.1 (2014-04) ETSI EN 300 330-2 (V1.5.1) ETSI EN 300 440-2 (V1.4.1)</p> <p>EN 50566 EN 62479 IEC 62209-1528:2020</p> <p>EN 60529 1992 EN 60068-2-64:2008 Test Fh ETSI EN 300 019-2-2:1999 (per Table 6)</p> |
| <p>13.2 European directives</p> | <p>Radio Equipment Directive – 2014/53/EU Low Voltage Directive – 2014/35/EU EMC Directive – 2014/30/EU RoHS – Restriction of Hazardous Substances – Directive – 2011/65/EU Declaration of conformity is available from www.radiodetection.com</p> |
| <p>13.3 Radio FCC, IC</p> <p><i>FCC EMC:</i></p> <p><i>FCC RF:</i></p> <p><i>FCC SAR:</i></p> <p><i>ISED Certification No:</i></p> <p><i>ISED SAR:</i></p> | <p>47CFR 15.107 47CFR 15.109 ICES-003 Issue 7, January 2020</p> <p>47CFR 15.207 47CFR 15.209 RFC 15.247</p> <p>FCC 47 CFR part 2 (2.1093)</p> <p>IC: 3893A-CLASSIC IC: 3147-BL652</p> <p>RSS-102 Issue 5, March 2015</p> |
| <p>13.4 Environmental</p> | <p>WEEE compliant ROHS compliant Altitude: up to 5000m Outdoor use Wet location</p> |
| <p>13.5 Manufacturing</p> | <p>ISO 9001: 2015</p> |

14. Compatible Accessories

| Accessory | Part description | | | | | Part number | | |
|---|--|-----------|-----------------|----------|--------------|---|--------------------|--|
| 14.1 Lithium-Ion battery packs | Li-Ion rechargeable battery mains kit (Includes mains charger) Li-Ion rechargeable battery pack (no charger) | | | | | 10/RX-MBATPACK-V2-XX (XX = AU, EU, UK, or US) 10/RX-BATPACK-V2 | | |
| 14.2 Lithium-Ion battery chargers | Li-Ion automotive charger Li-Ion mains charger | | | | | 10/RX-ACHARGER-V2 10/RX-MCHARGER-V2-XX (XX = AU, EU, UK, or US) | | |
| 14.3 Transportation and storage accessories – <i>For combined locator and transmitter</i> | Soft Carry Bag | | | | | 10/RD82SGBAG | | |
| 14.4 Locator signal clamps – <i>For identification and location of utilities</i> | Metric: 50mm Locator Clamp Imperial: 2" Locator Clamp Metric: 100mm Locator Clamp Imperial: 4" Locator Clamp Metric: 130mm Locator Clamp Imperial: 5" Locator Clamp CD and Current Measurement Clamp | | | | | 10/RX-CLAMP-50 10/RX-CLAMP-2 10/RX-CLAMP-100 10/RX-CLAMP-4 10/RX-CLAMP-130 10/RX-CLAMP-5 10/RX-CD-CLAMP | | |
| 14.5 Signal stethoscopes – <i>To locate and identify individual utilities e.g. within walls, congested areas or when cables/utilities are in close proximity to each other</i> | High Gain Stethoscope Large Stethoscope Small Stethoscope CD Stethoscope | | | | | 10/RX-STETHOSCOPE-HG 10/RX-STETHOSCOPE-L 10/RX-STETHOSCOPE-S 10/RX-CD-STETHOSCOPE | | |
| 14.6 Sondes <i>Battery powered signal transmitters for tracing or locating non-conductive utilities</i> | | | Diameter | | Range | | Freq (Hz) | |
| | | mm | In | m | Ft | | | |
| | S6 Microsonde | 6 | ¼ | 2 | 6½ | 33k | 10/SONDE-MICRO-33 | |
| | S9 Minisonde | 9 | 3/8 | 4 | 13 | 33k | 10/SONDE-MINI-33 | |
| | S13 Super Small Sonde | 13 | ½ | 2 | 6½ | 33k | 10/SONDE-S13-33 | |
| | S18 Small Sonde | 18 | ¾ | 4.5 | 14½ | 33k | 10/SONDE-S18A-33 | |
| | Standard C-Sonde | 39 | 1½ | 5 | 16½ | 33k | 10/SONDE-STD-33 | |
| 8k | | | | | | 10/SONDE-STD-8 | | |
| 512 | | | | | | 10/SONDE-STD-512 | | |
| | Sewer Sonde | 64 | 2½ | 8 | 26 | 33k | 10/SONDE-SEWER-33 | |
| | Super Sonde | 64 | 2½ | 15 | 50 | 33k | 10/SONDE-SUPER-33 | |
| | Flexi Sonde | 23 | 7/8 | 6 | 20 | 512 | 10/SONDE-BENDI-512 | |
| 14.7 Submersible antennas | 512Hz Submersible DD Antenna 640Hz Submersible DD Antenna 8kHz Submersible DD Antenna | | | | | 10/RX-SUBANTENNA-512 10/RX-SUBANTENNA-640 10/RX-SUBANTENNA-8K | | |
| 14.8 FlexiTrace™ – <i>Use with a transmitter to trace small diameter pipes</i> | FlexiTrace 50m / 165' FlexiTrace 80m / 260' | | | | | 10/TRACE50-GB 10/TRACE80-GB | | |

| 14.9 Flexrods – Fibreglass rod used for propelling Radiodetection sondes through pipes to trace the path and locate blockages | Length | | Diameter | | |
|--|--|-----|----------|------|----------------------------------|
| | m | Ft | mm | In | |
| | 50 | 160 | 4.5 | 3/16 | 10/FLEXRODF50-4.5 |
| | 80 | 260 | 4.5 | 3/16 | 10/FLEXRODF80-4.5 |
| | 50 | 160 | 7 | ¼ | 10/FLEXRODF50-7 |
| | 100 | 320 | 7 | ¼ | 10/FLEXRODF100-7 |
| | 150 | 485 | 7 | ¼ | 10/FLEXRODF150-7 |
| | 60 | 195 | 9 | 3/8 | 10/FLEXRODF60-9 |
| | 120 | 390 | 9 | 3/8 | 10/FLEXRODF120-9 |
| 14.10 A-Frame – Used for locating sheath faults on cables and coating defects on pipelines | A-Frame (includes A-Frame Lead) A-Frame Bag | | | | 10/RX-AFRAME 10/RX-AFRAME-BAG |
| 14.11 Headphones | Recommended for use in noisy environments | | | | 10/RX-HEADPHONES |
| 14.12 Calibration Certificates | Locator Calibration Certificate, per unit (request with initial locator order) eCert Calibration Credit | | | | 10/CALCERT 10/ECERT-RD72/RD82 |

All specification are measured in test conditions, at 21°C / 70°F.

¹ Based on volumetric testing at a known fixed depth. True depth accuracy depends on factors such as ground composition, utility characteristics and the locate frequency / signal strength employed. Always follow local safe digging guidelines.

² The RD8200 will locate to greater depths in the right conditions, but depth accuracy will be compromised. Depth measurement will not be displayed beyond these depths.

³ Tested with clear line-of-sight. Range is dependent on electrical environment and weather conditions. For optimum range, face the locator toward the transmitter and raise the transmitter 2' / 60cm from the ground.

⁴ To provide repeatable measurements, run-time is measured with backlight and vibration motor switched to 'off'.

⁵ Water projected by a nozzle at a pressure of 30kPa / 0.3 bar / 4.4 psi in accordance with BS EN 60529 1992 A2 2013.

⁶ At very low temperatures, battery life will be degraded, LCD performance may slow and measurement precision may reduce.

Our Mission

Provide best in class equipment and solutions, to prevent damage to critical infrastructure, manage assets and protect lives.

Our Vision

To be the world's leader in the management of critical infrastructure and utilities.

Our Locations



USA

Raymond, ME
Kearneysville, WV

Canada

Mississauga, ON



Europe

United Kingdom **HQ**
France
Germany
The Netherlands



Asia Pacific

India
China
Hong Kong
Australia

Visit: www.radiodetection.com Follow us on:    

Scan to see a full list of our office locations

