

### AC Current Models



### AC/DC Voltage Models



|                                             | Model L411                                               | Model L412                                                                                                                                                                                                                                                    | Model DL913                                                     | Model L461                                                | Model L261                                                      |
|---------------------------------------------|----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------------|
| CAT. #                                      | 2153.52                                                  | 2153.53                                                                                                                                                                                                                                                       | 2153.61                                                         | 2153.54                                                   | 2126.05                                                         |
| ELECTRICAL                                  |                                                          |                                                                                                                                                                                                                                                               |                                                                 |                                                           |                                                                 |
| Measurement Type                            | AC Current                                               |                                                                                                                                                                                                                                                               |                                                                 | AC / DC Voltage                                           |                                                                 |
| Number of Channels                          | 1                                                        | 2 (L1, L2)                                                                                                                                                                                                                                                    | 3 (L1, L2, L3)                                                  | 1                                                         |                                                                 |
| Probe / Sensor Type                         | 1 Integrated 14 in MiniFlex® sensor                      | Compatible with: <i>Probe – Max Range</i><br>SR193-BK – 1000 A <sub>AC</sub> MiniFlex® – 3000 A <sub>AC</sub><br>MN193-BK – 25,000 A <sub>AC</sub> <sup>(1)</sup> AmpFlex® – 3000 A <sub>AC</sub><br>MN93-BK – 200 A <sub>AC</sub> MN94 – 200 A <sub>AC</sub> | 3 Integrated 24 in MiniFlex® sensors                            | 4 mm banana jacks ( <i>test leads included</i> )          |                                                                 |
| AC Current Range                            | (0.4 to 3600) A <sub>AC</sub>                            | 10 mA to 25,000 A <sub>AC</sub> ( <i>sensor dependent</i> )                                                                                                                                                                                                   | (300 or 3000) A ( <i>selectable range</i> )                     | N/A                                                       |                                                                 |
| AC Voltage Range                            | N/A                                                      |                                                                                                                                                                                                                                                               |                                                                 | (10 to 1200) V <sub>AC</sub>                              | (5 to 600) V <sub>AC/AC+DC</sub>                                |
| DC Voltage Range                            | N/A                                                      |                                                                                                                                                                                                                                                               |                                                                 | (10 to 1700) V <sub>DC</sub>                              | N/A                                                             |
| Frequency Range                             | (45 to 65) Hz                                            |                                                                                                                                                                                                                                                               | (50/60) Hz                                                      | (45 to 65) Hz                                             | (50/60) Hz                                                      |
| Sampling                                    | 200 ms aggregation periods                               |                                                                                                                                                                                                                                                               |                                                                 |                                                           | 64 samples / cycle                                              |
| USER INTERFACE                              |                                                          |                                                                                                                                                                                                                                                               |                                                                 |                                                           |                                                                 |
| Display                                     | Custom LCD Blue back light                               |                                                                                                                                                                                                                                                               |                                                                 |                                                           | 5 LED status indicators ( <i>no LCD display</i> )               |
| User Interface                              | 7-button menu navigation                                 |                                                                                                                                                                                                                                                               | 5-button menu navigation                                        | 7-button menu navigation                                  | 1-button PRESS control                                          |
| Real-Time Display                           | Yes ( <i>current &amp; frequency</i> )                   | Yes ( <i>dual-channel current &amp; frequency</i> )                                                                                                                                                                                                           | Yes ( <i>3-channel current &amp; frequency</i> )                | Yes ( <i>voltage &amp; frequency</i> )                    | No display ( <i>LEDs only</i> )                                 |
| CONNECTIVITY                                |                                                          |                                                                                                                                                                                                                                                               |                                                                 |                                                           |                                                                 |
| USB                                         | Yes                                                      |                                                                                                                                                                                                                                                               |                                                                 |                                                           |                                                                 |
| Wi-Fi (AP & Router Modes)                   | Yes                                                      |                                                                                                                                                                                                                                                               |                                                                 |                                                           | N/A                                                             |
| Built-in Web Server                         | Yes                                                      |                                                                                                                                                                                                                                                               |                                                                 |                                                           | N/A                                                             |
| DataViewSync™                               | Yes                                                      |                                                                                                                                                                                                                                                               |                                                                 |                                                           | N/A                                                             |
| Software                                    | DataView® / DL Control Panel ( <i>included</i> )         |                                                                                                                                                                                                                                                               |                                                                 |                                                           | DataView® / Simple Logger® II Control Panel ( <i>included</i> ) |
| MEMORY & RECORDING                          |                                                          |                                                                                                                                                                                                                                                               |                                                                 |                                                           |                                                                 |
| Internal Memory                             | 8 GB ( <i>internal μSD</i> )                             |                                                                                                                                                                                                                                                               |                                                                 |                                                           | 512 KB flash (~ 240,000 measurements)                           |
| Separate Recording Sessions                 | Up to 200 sessions                                       |                                                                                                                                                                                                                                                               | Limited by available memory                                     | Up to 200 sessions                                        | > 20 sessions                                                   |
| Max Recording ( <i>battery, Wi-Fi off</i> ) | Normal: ~3 days Extended: up to ~10 weeks <sup>(2)</sup> |                                                                                                                                                                                                                                                               | Up to ~ 2000 days capacity                                      | Normal: ~3 days Extended: up to ~10 weeks <sup>(2)</sup>  | 100 h to 45+ days ( <i>storage-rate dependent</i> )             |
| Recording Aggregation / Storage Rate        | 1 s to 60 min ( <i>selectable</i> )                      |                                                                                                                                                                                                                                                               | Normal: 1 s Extended: 15 s to 1 min intervals                   | 1 s to 60 min ( <i>selectable</i> )                       | 125 ms to 1 per day ( <i>programmable</i> )                     |
| Recording Modes                             | Normal / Extended                                        |                                                                                                                                                                                                                                                               |                                                                 |                                                           | Start / Stop, FIFO, XRM™ ( <i>Continuous overwrite</i> ), Alarm |
| Data Trending                               | Snapshot / Aggregated                                    |                                                                                                                                                                                                                                                               |                                                                 |                                                           | Snapshot Only                                                   |
| Min / Max Capture                           | Yes                                                      |                                                                                                                                                                                                                                                               |                                                                 |                                                           | N/A                                                             |
| POWER                                       |                                                          |                                                                                                                                                                                                                                                               |                                                                 |                                                           |                                                                 |
| Battery Type                                | (3) AA alkaline                                          |                                                                                                                                                                                                                                                               | NiMH rechargeable pack (4.2 A-h, 10 h charge time)              | (3) AA alkaline                                           | (2) AA alkaline                                                 |
| External / USB Power                        | Yes                                                      |                                                                                                                                                                                                                                                               |                                                                 |                                                           | USB data only ( <i>no USB power input</i> )                     |
| GENERAL                                     |                                                          |                                                                                                                                                                                                                                                               |                                                                 |                                                           |                                                                 |
| Mount                                       | Built-in magnetic mount                                  |                                                                                                                                                                                                                                                               | Mounting Bracket                                                | Built-in magnetic mount                                   | N/A                                                             |
| Ingress Protection                          | IP 54 ( <i>logger body</i> )<br>IP 67 ( <i>sensor</i> )  | IP 54 ( <i>not operating</i> ) IP 20 ( <i>in use</i> )                                                                                                                                                                                                        |                                                                 | IP 54 ( <i>not operating</i> )<br>IP 20 ( <i>in use</i> ) | IP 40                                                           |
| Safety                                      | 600 V CAT IV, 1000 V CAT III                             | Sensor dependent                                                                                                                                                                                                                                              |                                                                 | 1000 V CAT IV, 1500 V <sub>DC</sub> CAT III               | 600 V CAT III, 300 V CAT IV                                     |
| Warranty                                    | 2 years                                                  |                                                                                                                                                                                                                                                               |                                                                 |                                                           |                                                                 |
| APPLICATIONS                                |                                                          |                                                                                                                                                                                                                                                               |                                                                 |                                                           |                                                                 |
| Primary Use Case                            | Single-circuit AC current trend logging                  | Dual-circuit AC current trend logging & balance studies                                                                                                                                                                                                       | 3-phase AC current logging; outdoor / panel-mount installations | Distribution / solar PV AC & DC voltage monitoring        | Single-circuit AC/DC voltage or current spot logging            |
| Typical Applications                        | Motor, HVAC, feeder single-circuit monitoring            | Transformer, UPS, generator load comparison                                                                                                                                                                                                                   | 3-phase distribution panels, outdoor substation trending        | Utility feeder, MV distribution, solar DC bus             | Branch circuit voltage, & DC bus spot checks                    |

<sup>(1)</sup> 25,000 A when measuring CT secondaries with a configured ratio, <sup>(2)</sup> Recording aggregation set to 15 minutes