The DRPD-15 is the industry’s most compact and rugged Partial Discharge (PD) analyzer.

Design Advantages
The DRPD-15 is a portable PD analyzer featuring, fifteen independent highly sensitive, user configurable input channels; delivering the industry’s best signal-to-noise ratio and allowing connection to any brand of PD sensor!

This analyser has the ability to store test results from multiple objects for uploading and further analysis, without the need for gain adjustments.

Features & Benefits
- Designed with a rugged enclosure the analyzer is lightweight and can be used in harsh environments.
- The DRPD-15 is powered by either line voltage or its on-board battery, making it invaluable in areas where an AC power source is not available.
- The analyzer’s design allows for independent operation or with a connected computer.
- The analyzer’s advanced noise cancellation capabilities include the elimination of cross coupled signals.
- The DRPD-15 can analyze all types of electrical equipment including motors, generators, transformers, bus duct, cable and switchgear.
- The included Microsoft Windows™ based software allows for configuration, uploading of stored data and analysis.
- Designed for compatibility, the DRPD-15 will operate with existing PD sensors of any brand or make. This allows for additional customer benefit by saving the purchasing, engineering and installation costs of new sensors.
Applications

- Hydro & Turbo Generators
- Motors, including VFD’s
- Bus duct
- Switchgear & Cables
- Transformers

Key Features

With Dynamic Ratings DRPD-15 there is no need for a different analyzer for each application. There is not a more portable feature rich partial discharge analyzer on the market.

It is designed to connect to permanently installed sensors on equipment such as motors, generators, switchgear, bus duct and cables. Typically the permanently installed sensors are connected to a junction box BNC-15 (shown lower right).

DRPD User Panel

The instrument comes in a small light weight enclosure and has a built-in LCD display with a hermetically sealed membrane keypad. The display provides indication on the state of a measurement, errors and PD levels.

Built-in user configurable hardware noise separation methods include:

- Time-of-Flight
- Pulse Shape Analysis
- Pulse Polarity Comparison
- Magnitude Comparison
- Gating Techniques

All PD data is stored in the form of calculated integrals including PD magnitudes in mV or pC, pulse count, and partial discharge intensity and operational characteristics such as temperature, humidity and load current. As well as complete phase resolved data.

Typical sensors that can be used with the DRPD-15 include:

- Capacitive Couplers
- RTDs
- RFCTs
- Stator Slot Couplers
- Rogowski Coils

The DRPD-15 has been used successfully on system voltages ranging from 2.3 to 800kV.

All fifteen PD channels have identical isolated input circuitry and protection. Each channel can be easily and independently designated as either a signal or noise input. Furthermore, each channel can be independently adjusted for sensitivity and noise reduction, which improves the signal-to-noise ratio.
Software Package
The supplied Microsoft Windows™ software application is a versatile product supporting Dynamic Ratings portable and continuous insulation monitoring systems that may be found on generators, motors, switchgear, cables, bus duct, and transformers. The software allows the user to configure the instrumentation, download and store the data and provides tools for data presentation and analysis.

Graphic Results
Test results can be presented in all industry accepted formats:

- 2D Phase Resolved
- 3D Phase Resolved
- Polar Phase Resolved
- Pulse Height Distribution
- Trend

The Athena software allows for the trending of all standard quantities of magnitudes, pulse counts, PD Intensity as well as operating dynamics. Multiple channels can be presented on the same screen for easy comparison and analysis.

Compatible with industry PD sensors
### SPECIFICATIONS

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PD Channels:</strong></td>
<td>15 with concurrent data acquisition</td>
</tr>
<tr>
<td><strong>Dynamic Range:</strong></td>
<td>70 dB, 3 mV to 10 V, with no gain adjustment</td>
</tr>
<tr>
<td><strong>Power Frequency Phase Resolution:</strong></td>
<td>7.5˚</td>
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<tr>
<td><strong>Power Requirement:</strong></td>
<td>100 - 265 VAC 50/60 Hz or internal battery</td>
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<tr>
<td><strong>Internal Memory:</strong></td>
<td>8 MB</td>
</tr>
<tr>
<td><strong>Magnitude Windows:</strong></td>
<td>32 Positive - 32 Negative</td>
</tr>
<tr>
<td><strong>Measurement Frequency Bandwidth:</strong></td>
<td>1 MHz to 20 MHz</td>
</tr>
<tr>
<td><strong>Temperature Range:</strong></td>
<td>-40˚ C to 70˚ C / -40˚ F to 158˚ F</td>
</tr>
<tr>
<td><strong>User Interface:</strong></td>
<td>Membrane keypad or PC via USB port</td>
</tr>
</tbody>
</table>

### DRPD-15 — ORDERING INFORMATION

<table>
<thead>
<tr>
<th>Part#</th>
<th>Description</th>
<th>Dimensions W x D x H mm/in.</th>
<th>Weight kg/lbs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>DRPD-15</td>
<td>Fifteen channel portable PD analyzer Including: internal battery, fifteen (3m / 10 ft.) BNC- BNC RG58 coaxial cables, USB cable and (1) VAC power cord</td>
<td>280 x 254 x 127 (mm) / 11 x 10 x 5 (in.)</td>
<td>3.2 (kg) / 7.0 (lbs)</td>
</tr>
<tr>
<td>DRPD-15T</td>
<td>Fifteen channel portable PD analyzer with power source to support up to six Rogowski Coil, transformer and bushing sensors Including: internal battery, fifteen (3m / 10 ft.) BNC- BNC RG58 coaxial cables, USB cable and (1) VAC power cord</td>
<td>280 x 254 x 127 (mm) / 11 x 10 x 5 (in.)</td>
<td>3.2 (kg) / 7.0 (lbs)</td>
</tr>
</tbody>
</table>

**SENSORS and ACCESSORIES**

The products above are compatible with industry sensors, including Dynamic Ratings; Coupling Capacitors, RTD-PD Sensing Module, Ground Path Current, Radio-Frequency Current Transformers and Rogowski Coil Bushing Sensors.

Contact us for a “Sensors & Accessories for Partial Discharge (PD) Monitoring Systems” product catalog.