

# Data Centers

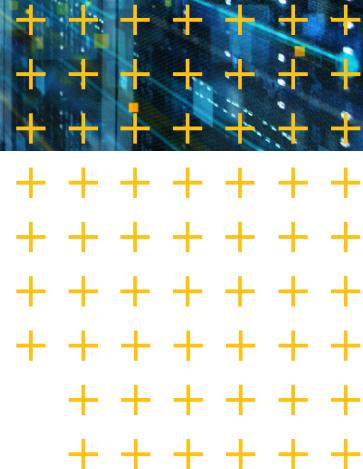
Safety, maximum availability,  
and profitability

## Protect your data center with reliable power and continuous monitoring

Today's data centers demand uninterrupted power and high availability. Electrical faults can lead to costly downtime - but with Bender solutions, problems are detected early, before they impact operations.

Bender has solutions for all system grounding approaches to help ensure safe, stable power by continuously monitoring your electrical system and limiting the fault current. Bender's Insulation Monitoring Devices (IMDs) and Residual Current Monitors (RCMs) deliver around-the-clock monitoring, identifying potential faults before they cause costly shutdowns.

As more businesses move to the cloud and demand grows for 24/7 uptime, Bender remains a trusted partner in electrical safety, helping data centers stay reliable, efficient, and ready for the future.



## Our technology empowers you to:

- **Prevent costly downtime** by detecting and locating ground faults without interrupting power
- **Improve safety** by reducing arc-flash risk and ensures system reliability through continuous monitoring
- **Streamline troubleshooting** by automating fault location and enables remote diagnostics
- **Centralizes monitoring** and enables you to view and control all Bender and third-party devices from one interface.
- **Gain insight with analytics** via cloud-based tools help predict issues and optimize maintenance planning
- **Ensure power quality** by filtering harmful harmonics and monitoring wide frequency ranges
- **Protect critical loads** and support continued operation during faults and track insulation deterioration over time



## Enhance Reliability in Power Distribution

Data centers rely on uninterrupted power and built-in redundancy to ensure high performance and efficiency. Failures can be costly, but with continuous monitoring from Bender devices, issues are detected early to keep operations safe and running.



### 1 Residual Current Monitors (RCM, RCMA, RCMS and RCMB Series)

Monitor and protect AC and DC solidly grounded power systems

- Recognizes, locates, and prevents destructive ground fault conditions for service entrance equipment
- AC/DC versions provide full frequency ground-fault protection that protects UPS power supplies from "blind spots" such as DC faults



### 2 Condition Monitors (CP Series)

Human Machine Interface that allows the connection of Bender and third-party devices

- Offers centralized testing and monitoring of all connected Bender and third-party devices
- Enables quick and easy access to reporting functions



### 3 Insulation Monitoring Devices (iso685)

Monitor AC and DC ungrounded power systems ( $\leq 1 \text{ MW}$ )

- Minimizes unplanned outages and eliminates the need to interrupt power to identify faulted circuits
- Proactively plan system maintenance by trending insulation deterioration over time



### 4 High Resistance Grounded Systems (HRG Series)

Improve electrical safety and reliability of grounded generators and substations

- Reduces the probability of an arc-flash incident by limiting the current of the initial phase-to-ground fault
- Enables continuous operation of critical loads during a ground fault to minimize system interruption



Bender Inc.

800.356.4266 | [info@benderinc.com](mailto:info@benderinc.com)  
[www.benderinc.com](http://www.benderinc.com)

Bender Canada

905.602.9990 | [info@bender-ca.com](mailto:info@bender-ca.com)  
[www.benderinc.com](http://www.benderinc.com)

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