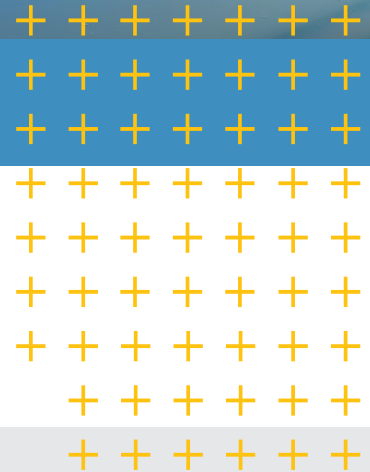


Water and Wastewater

Electrical Safety Solutions



Avoid costly downtime in water and wastewater facilities.

Water and wastewater facilities must operate reliably and safely, which is why Bender has developed solutions suitable for practically any resistance grounded electrical system within the facility. Modern systems often employ variable frequency drives (VFDs), also referred to as adjustable speed drives (ASDs), that require special consideration to be adequately protected.

These types of AC/DC loads are best protected by devices capable of monitoring their entire operating frequency range to capture both AC and DC ground faults. Bender's RCM and NGRM products provide this advanced level of protection and can be included in turnkey HRG packages. Their ability to detect very low fault current allows pre-warning of ground faults that can cause significant damage to capital equipment.

Benefits

Detects faults without interrupting operation

Ground faults or insulation breakdown issues can be **detected and located** while keeping the installation energized.

Reduces maintenance costs

Significant **decrease in maintenance costs** due to the accuracy of detection and decreased need for human interaction with the system.

Automatically locates faults

Automatic fault location eliminates the need for opening branch circuit breakers or disconnecting equipment.

Safety

Ground-fault location at feeders and loads **minimizes employee shock hazards**, and quick repair can **prevent a fire**.

Ease of retrofit

Ability to **easily and cost-effectively upgrade** older equipment.



Bender Wastewater Solutions

Neutral Grounding Resistor Monitors

- 1
- 2
- NGRM700 and NGRM750, NGRM500 and NGRM550
 - Improves safety with monitoring of the grounding resistor and allows for simple preventative maintenance
 - Full frequency ground-fault monitoring provides AC/DC ground-fault protection
 - NGRM700 and NGRM750 provide program and display information without opening doors using door mounted HMI
 - NGRM500 and NGRM550 offer same technology in a simplified design with compact DIN rail mount



Residual Current Monitor

- 3
- RCMS490
 - Recognizes, locates, and prevents destructive ground-fault conditions
 - Safeguards sensitive manufacturing equipment by detecting low level ground-fault currents
 - Monitors a wide AC/DC range of frequencies and harmonics that can cause nuisance tripping



Communications Display

- 4
- CP9xx
 - Allows simple and intuitive programming of all connected devices
 - Displays complete system overview to allow continuous monitoring of system
 - Offers remote troubleshooting, programming, and diagnostics

