



# OHMM

## D S P O H M N I S Y S T E M



The **DSP SYSTEM** is designed to detect the event of a single ground fault, signal an alarm, and point to the affected branch or feeder. Thus maintenance can be immediately alerted to the problem and an operator dispatched to locate the fault to isolate it promptly.



The DSP system can assist in locating the fault with a pulsing fault location circuit. In the event of a second ground fault, the DSP acts quickly to prevent loss of two feeders by selectively tripping the lower priority feeder only.

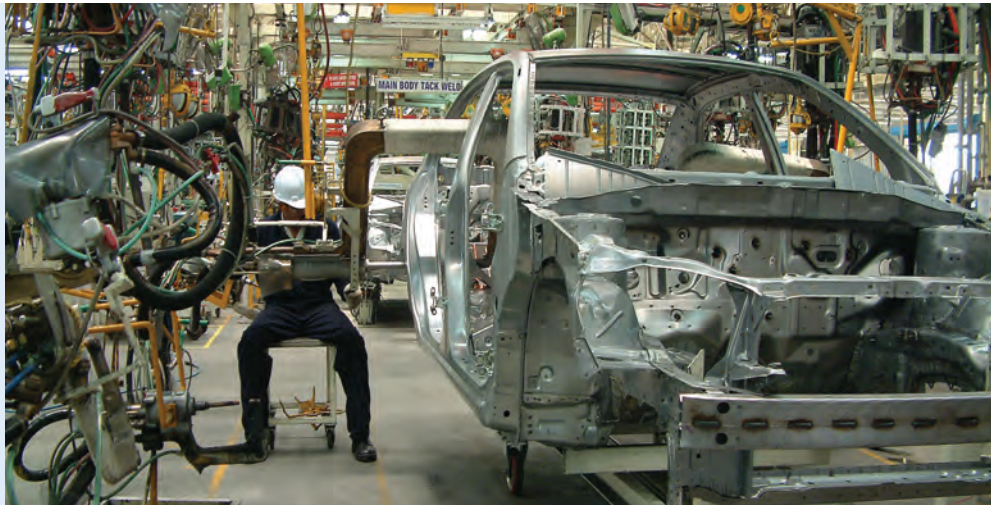
# the power to protect

**Ground faults cause** havoc on plant production processes, shutting down power and equipment and critical loads.

**Ground faults disrupt** the flow of products through manufacturing processes and cause data loss in computer centers leading to hours or even days of lost productivity.

**Ground faults pose** potential health and safety risks to personnel, creating hazards such as equipment malfunctions, fire and electric shock.

**High Resistance-Grounding (HRG)** is becoming more prevalent in industrial and commercial electrical power systems because it eliminates un-scheduled downtime due to ground faults, and improves personnel safety by preventing ground faults from escalating into arc-flash incidents. Resistance Grounding is highly recommended for generators, to protect them from damage due to excessive ground fault currents.



**DIN rail mounted high resistance grounding system**

**Multi-Feeder ground alarm indication with double fault protection**

**Integral resistance pulsing and MODBUS communication for remote monitoring**

**Inrush detection restraint prevents nuisance tripping on high inrush loads**

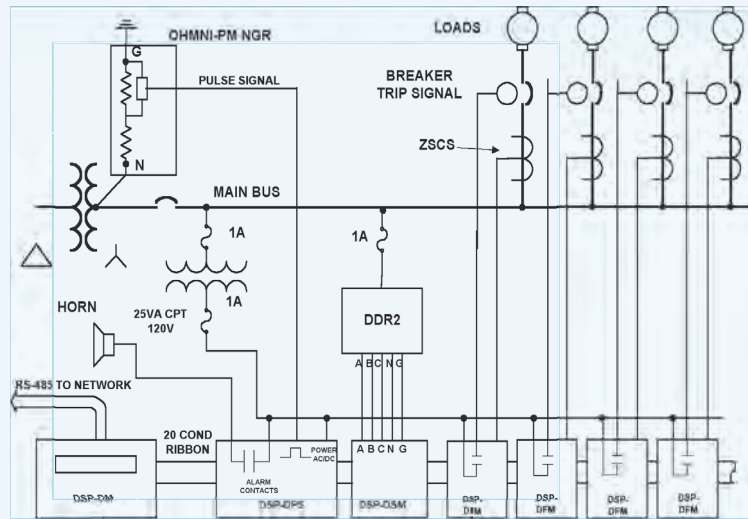


With its separate easy to read digital display and modular design, the DSP OHMNI can be expanded to 50 feeders for large installations, each with a dedicated feeder module and sensitive zero-sequence current sensor.

### MODBUS

communications allows the operator to remotely monitor which feeder has faulted and to monitor the leakage currents of all feeders for trending purposes.

## Technical Specifications



<b>Power Requirements</b>	100-240V, 50/60Hz or DC, 25VA
<b>Control voltage</b>	250V AC/DC
<b>Dielectric</b>	Relay contacts to chassis                      1500V rms. for 1 minute
	Control terminals to chassis                      1500V rms. for 1 minute Alarm Level
<b>Alarm Level Pickup</b>	50% of system Ground Current IG
<b>Trip Level Inhibit</b>	25% of system Ground Current
<b>Contact Ratings</b>	DSP-DFM Trip Contacts – Form C SPDT                      10 amperes, 240V AC resistive
	DSP-DPS Alarm Contacts – Form C SPDT                      8 amperes, 240V AC resistive
<b>Performance</b>	DSP-DFM
	Pickup accuracy                      ±10% of system let-through current
	Trip Level accuracy                      ±10A
	DSP-DSM
Alarm Level Accuracy                      ±10% of IG	
<b>Temperature Range</b>	Operating temperature 0°C – 50°C
<b>Standards</b>	CSA File number LR65287
	UL Listing E232710



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