

The Smart Navigator LM Faulted Circuit Indicator is designed and engineered for overhead Smart Grid Distribution Automation applications. The Smart Navigator LM is installed on overhead distribution circuits up to 46kV and transmits event based fault status information in addition to continuous circuit data.

The Smart Navigator LM FCI can be integrated into an existing Smart Grid system and operate in different communication environments such as cellular, SCADA or radio. The PDP DNP Receiver, which can be mounted on a pole or within other SCADA equipment (e.g. motor operated switches or RTUs), collects and manages all Smart Navigator LM data as an access point into a communication environment.

Automatic Load Leveling with Load Memory enables the unit to automatically set its fault trip threshold in relation to peak load current. When fault current exceeds trip rating, the Smart Navigator LM FCI sends a signal to the DNP Receiver or Smart Controller for near real time status reporting.

In addition to identifying fault status through the communication network, local indication is provided by a blinking bright red LED. Several combinations of reset methods are available including current, time, and manual. In addition to event based fault identification, the Smart Navigator LM FCI also can communicate fault data, load current, and status data.

Event Based Reports:

- ***Fault Detection***
- ***Momentary Versus Permanent***
- ***Fault Current Magnitude (Amps RMS)***
- ***Last Known Load Current***
- ***Fault Duration (msec.)***
- ***Time Stamp***

Continuous Reports:

- ***Routine Call and Health Check***
- ***Battery Status***
- ***Average Load Current***
- ***Peak Load Current***
- ***Minimum Load Current***
- ***Ambient Temperature***



Meets or Exceeds ANSI/IEEE 495-2007
ISO 9001 Certified Factory





SMART NAVIGATOR LM OVERHEAD FAULTED CIRCUIT INDICATOR

Technical Specifications	
Standards	MEETS OR EXCEEDS ANSI/IEEE STD. 495-2007
Minimum Trip Current	50 A, 100 A, or 200 A Minimum Trip @ 200 msec.
Load Tracking Initiation	25 A for 100A Minimum Trip Unit
Load Memory for Self Adjustment	72 Hours
Current Reset	≥ 3 Amps Load Current
Auto Reset Time	4 Hours
Maximum Operating Voltage	46 kV L-L
Accuracy	+10% @ 20 Degrees C
Current Withstand	25,000 Amps Sym. RMS / 170 msec.
Power Source	4 Lithium Oxide Cells, Replaceable, 15 year Operating Life
Indication	1 Bright Red LED / 1 Bright Yellow LED
Total Indicating Time	> 1200 Hours
Flashing Frequency	30 per minute for Fault Indication, 6 per minute for Low Battery
Temperature Range	-40 to +85 Degrees C
Adjacent Cable Immunity	10 inches @ 10kA
Cable Diameter Range	0.3 inches to 1.25 inches
Casing Material	UV Stable Fiber Reinforced Polymer
Current Transformer	Closed Core Ferrous Stainless Steel
Weight	15 oz.
RF Frequency/ Power/ Modulation	2.4 Ghz / 1 mw. / 2-FSK
RF Transmit Range	100 Feet Line of Sight
Data Reporting Cycle	15 Minutes

Catalog Number Selection					
43	10	Trip Rating (X)	6	Reset Option (X)	00
Smart Navigator FCI	Standard: Smart Navigator LM Faraday Cage Load Memory	Select One 0 = 50A Minimum Trip 1 = 100A Minimum Trip 2 = 200A Minimum Trip 9 = Fixed Trip (Specify Trip Rating)	Cable Diameter of 0.3" to 1.25"	Select One 1 = Current + Time + Manual Reset 2 = Time + Manual Reset	

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