

- *One Size For All Circuits*
- *Self Adjusting Trip Rating to Load Current*
- *100 A Minimum Trip Load Tracker*
- *Load Tracking Above 30 Amps*
- *72 Hour Peak Load Memory*
- *Automatic Reset On Time and/or Current*
- *High Intensity LED Indication (6 LEDs)*
- *Visible in Bright Sunlight*
- *360 Degree Visibility*
- *Self Diagnostic Battery Circuit*
- *Replaceable Lithium Cells/ 20 Year Shelf Life*
- *Self Powered / Armed and Ready*
- *Automatic In-Rush Restraint*
- *Hot Stick Applied / Quick Installation*



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

The Navigator LM is a “One Size Fits All” Fault Indicator for maximum deployment flexibility. When applied to an overhead distribution line, the Navigator samples load current and sets a Trip Rating point according to the peak load sampled on the circuit. The trip rating is adjusted according to the peak load measured and is stored in memory for 72 hours. During that time, the trip rating can go no lower. If a higher peak is established within that 72 hours, the unit will adjust the trip rating according to the new peak load. If a new peak is not observed, the unit will lower its trip rating and set it according to the actual load measured.

The Load Tracking/Load Memory feature, along with built in TCC Curves, provides flexibility to address installations close to the substation and further down the circuit to provide in-rush restraint. The six super high intensity Light Emitting Diodes allow Navigator Fault Indicators to be easily seen on the brightest days and under adverse weather and site conditions.

The Navigator is the first self powered Fault Indicator with a diagnostic power source monitor. When the field replaceable Lithium Cell power source becomes low, the Navigator will signal a low power condition via an amber flashing LED for up to 6 months.



NAVIGATOR LM OVERHEAD

Technical Specifications	
Standards	MEETS OR EXCEEDS ANSI/IEEE STD. 495-2007
Minimum Trip Current	100 A Minimum Trip @ 200 msec.
Load Tracking Initiation	30 A
Load Memory for Self Adjustment	72 Hours
Current Reset	≥ 3 Amps Load Current
Auto Reset Time	4 Hours Standard, 2, 8, 12 and 24 Hours Optional
Maximum Operating Voltage	46 kV L-L
Accuracy	±10% @ 20 Degrees C
Current Withstand	25 kA for 3 seconds
Power Source	4 Lithium Oxide Cell, Replaceable, 20 year Shelf Life
Indication	4 Bright Red LEDs, 2 Bright Yellow LEDs
Visibility	1/4 Mile Day / 1/2 Mile Night
Total Indicating Time	> 500 Hours Permanent Faults, > 1500 Hours Momentary Faults
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 1.15 inches (0.16" to 1.15 with optional rubber inserts)
Casing Material	UV Stable Fiber Reinforced Polymer
Current Transformer	Closed Core Ferrous Stainless Steel
Weight	16.8 oz.

Catalog Number Selection				
41	2001	Reset Option (X)	Trip Rating (X)	Reset Time (X)
Navigator FCI	Standard: Navigator LM 100A Minimum Trip Load Memory Cable Diameter = 0.30" to 1.15" (Change 1 to a 4 for optional rubber inserts)	Select One: 1 = Current + Time + Manual Reset 2 = Time + Manual Reset 3 = Dual Reset 4 Red & 2 Yellow Manual Reset	Select One 0 = 100A Load Tracker 7 = FCI PM Fixed Trip Select Trip Rating	Select One 0 = 2 Hour 1 = 4 Hour 2 = 8 Hour 3 = 12 Hour 6 = 24 Hour

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