

- *Sub-Transmission Radial Applications*
- *For Use From 69kV to 161kV*
- *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 LMHV is a high voltage Fault Indicator designed for application on 69 kV to 161 kV radial circuits. It provides an economical method to troubleshoot faults on sub-transmission circuits.

The FCI incorporates a Faraday cage to shield the internal electronic circuits from high intensity electrostatic fields.

Fault detection is indicated by high intensity LEDs, giving all around excellent visibility.

The Navigator LMHV includes “One Size fits all” Load Tracking with 72 hour load memory and fits cable diameters up to 1.4 inches.





NAVIGATOR LMHV 69kV to 161kV

Technical Specifications

Standards	MEETS OR EXCEEDS ANSI/IEEE STD. 495-2007
Minimum Trip Current	Available in 100A, 200A, 800A up to 2400A @ 200 msec.
Load Tracking Initiation	30 A (for 100 A Minimum Trip Units)
Load Memory for Self Adjustment	72 Hours
Current Reset	≥ 3 Amps Load Current
Auto Reset Time	4 Hours Standard, 8, 12 and 24 Hours Optional
Maximum Operating Voltage	161 kV L-L
Accuracy	+10% @ 20 Degrees C
Current Withstand	25,000 Amps Sym. RMS / 170 msec.
Power Source	4 Lithium Oxide Cells, 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	0.5 inches to 1.4 inches
Casing Material	UV Stable Fiber Reinforced Polymer
Current Transformer	Closed Core Ferrous Stainless Steel
Weight	19 oz.

* FOR SPECIAL APPLICATIONS OR REQUIREMENTS PLEASE CONTACT PDP INC. *

Catalog Number Selection				
41	2008	Reset Option (X)	Trip Rating (X)	Reset Time (X)
Navigator FCI	Standard: Navigator LMHV Faraday Cage Load Memory Cable Diameter = 0.5" to 1.4"	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 2 = 200A Load Tracker 5 = 800A Load Tracker 7 = FCI PM Fixed Trip Select Trip Rating	Select One 1 = 4 Hour 2 = 8 Hour 3 = 12 Hour 6 = 24 Hour

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