

OVERHEAD FAULTED CIRCUIT INDICATORS UP TO 69kV



The Series 1548 Faulted Circuit Indicator is designed for single phase overhead applications. Standard features include replaceable lithium battery and improved C-Clamp hotstick mount with automatic torque limiting which guarantees proper mounting on conductors with diameters from .2 to 1.2 inches.

The 1548 incorporates choices of LED, Radio, Flag or Strobe Light Fault Indication, Standard, Inrush or "Adaptive Trip Circuit Logic and both Time and Current Reset Options.

The 1548 Radio Indication models are SmartLink™ "Celllemetry®" ready for SCADA applications.

*Radio System Note: Multiphase fault signals may interfere after several minutes of reporting.

Mechanical Features:

- Replaceable long-life lithium battery (flag excluded).
- Hot Stick Mount (torque controlled).
- UV-Stable high impact plastic housing.
- Viewable indication from 360 degrees (Strobe or LED).
- Reliable operation in all weather conditions.



Conductor Size Calibration Selection :

- .5, .75 or 1 inch cable calibration selections available.

Electrical Features:

- "Adaptive" or Standard Current Trip with logic inrush restraint options.
Note: A dead time of 150 ms is required for the Inrush and Adaptive trip logics.
- Adaptive Trip Logic eliminates the need for trip rating selection.
- Load current and/or time reset of indicator.
- Manual trip and reset using magnet reset tool.

Electrical Options:

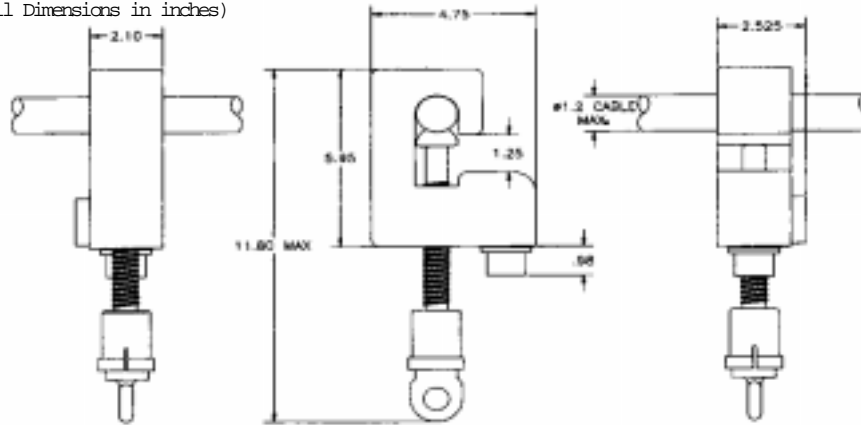
- Instantaneous recloser coordination for temporary fault detection. Main feeder 8 Amp minimum load applications.
- Backfeed Restraint utilizing a delay trip scheme which requires that the protective device allows 2 cycles minimum of fault current let through before closing.

Specifications

Continuous Withstand Load: 1000 amp max
Operating Temperature: -40° to +85°C
Reset Time Accuracy: +/- 10% @ 23°C
Current Reset: 3 amps minimum (strobe, radio, LED, Flag, 1548F)
 8 amps minimum (strobe, radio, LED, Flag, 1548G)
Trip Current Level: 50 to 1500A (Customer specified or Adaptive Trip)
Trip Accuracy: +/- 10% @ 23°C (Calibrated on selected cable diameter)

Fault Withstand: 25kA for 10 cycles (per ANSI/IEEE 495-1986)
Battery: Replaceable, 10+ yr Lithium Cell
 (Flag model non-replaceable)
Operating Life: @ 23°C **Flag/LED:** 1000 operating hours
Strobe: 120 operating hours
Radio: 800 operating hours
Housing: Lexan 143, UV-stable polycarbonate
Cable Diameter: 0.2 to 1.2 inch

Mechanical Data (All Dimensions in inches)



Indicator with LED shown

Ordering Information

Model Number Examples and Applications:

1548FH-ANC3-L-N-A* Branch Feeder (3 amp minimum load application)

1548GH- BDC3-L-N-A* Main Feeder (8 amp minimum load application)

*please confirm features listed, optimize performance for your system application.

1548F H - C 2 C 3 - R - A - A
 (1) (2) (3) (4) (5) (6) (7) (8) (9)

Code	Basic Model
1548F	3 Amp Minimum Load Current Required for Reset & Adaptive and Inrush Logics
1548G	8 Amp Minimum Load Current Required for Instantaneous Recloser Operation Detection of Temporary Faults

Code	System Voltage
H	Single Phase Faulted Circuit Indicator. Hotstick Mount Up to 44 kV System Voltage. Phase to Phase.
X	Single Phase Faulted Circuit Indicator. Hotstick Mount. Up to 69kV System Voltage. Phase to Phase. LED and /or Radio Indicaiton Only

Code	Trip/Inrush Logic Options
A	Adaptive Trip Requires: 1) 60 Seconds of Continuous Minimum Load current 2) di/dt < 50 ms 3) Loss of Current Within 60 Seconds
B	Adaptive Trip With 24ms +/- 20% Delay Trip (backfeed Restraint)
C	Logic Inrush, Current Trip +/- 10% Accuracy, dual Curves (delay and undelay)
D	32ms +/- 20% Delay, Current Trip: +/- 10% Accuracy
U	Undelayed Current Trip +/- 10% Accuracy, Standard Trip

Code	Trip Current
N	100 Amp di/dt Adaptive Trip*
D	300 Amp di/dt Main Feeder Applications**
0.5	50 Amp
1	100 Amp
2	200 Amp
3	300 Amp
4	400 Amp
5	500 Amp
6	600 Amp
8	800 Amp
10	1000 Amp
12	1200 Amp
15	1500 Amp

*100A at 20A load current to 300A at 600A Load current
 **300A at 20A load current to 400A at 350A load current

Code	Reset Time-Delay Options
LED, Radio, Strobe or Flag	
C	4 Hours Automatic with Current Reset Override (60 sec. after restoration of power)
N	4 Hours Automatic
Z	60 Seconds after Restoration of Power Recommended for Flag
P	24 Hours Automatic, Recommended for Flag/LED
T	Manual Reset Only, Recommended for Flag Tool Required*

For 2hr, 8hr or other customer specified time delay periods, Consult Factory.
 Manual test and reset included as standard. *AT2186-10

Code	Factory Code
A	Series 1548 As Released

Code	Transmitter Phase Encoder
A	Phase A
B	Phase B
C	Phase C
T	Tap
N	No Transmitter Available for Code F, T, L of Section 7

Code	Indicator Options
L	Ultra Bright LED
T	Strobe Light (not available with 1548FX or GX model)
R	Radio with LED
F	Flag (not available with 1548FX or GX model)

Code	Cable Diameter Factory Calibration
1	.5 Inch Cable
2	.75 Inch Cable
3	1.0 Inch Cable (standard for all Adaptive models)

Specifications are subject to change.



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