

ECLIPSE DFWT



Monitor With Confidence™

Direct Fiber Winding Temperature

- ◆ No calibration or maintenance
- ◆ High dielectric strength
- ◆ Fired Phosphor Tipped Fiber
- ◆ Rated for use at 765 kV
- ◆ Compatible with existing Phosphor tip fiber installs
- ◆ Up to eight fiber capable
- ◆ Fibers are oil, solvent & chemical resistant
- ◆ Includes all great ECLIPSE features



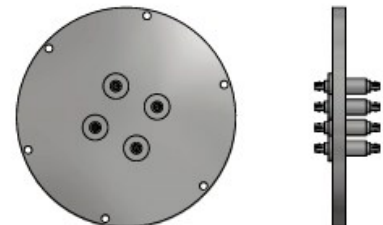
Real Time Winding Hotspot Permits Real Time Dynamic Loading

- ◆ Couple with GIC Core Saturation Detection for real time winding hotspot temperature
- ◆ Improved loss of life calculation
- ◆ Real time cooling system efficiency evaluation
- ◆ Faster winding hotspot temperature response
- ◆ More accurate winding hotspot temperature

Fiber Probe



Flange



Fiber Extension



ECLIPSE Model Option Table

Select **One** Option from each Feature Matrix

- Standard Features:**
- 3 RTD Inputs (For additional RTD Inputs, please contact the factory)
 - 1 CT input for winding hotspot calculation
 - 8 Relay Outputs with 3 optically isolated digital inputs
 - Local RS-232 Port
 - Graphic LCD Display
 - Built-in 48 Point Annunciator
 - Selectable DNP/MODBUS Communications
 - RS-485 Port for DNP/MODBUS
 - RJ-45 Ethernet Port
 - Tap Position Monitoring Functionality

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PACKAGE OPTION

Package	
Panel Mounting	0
Panel in NEMA 4X box w/Heater	1

COMMUNICATION OPTION

Communication Options

Standard Features	0
DNP/MODBUS on dedicated Multi-Mode Fiber	1
DNP/MODBUS on dedicated VPIN Fiber	2
4 Analog Outputs, Plus DNP/MODBUS on RS-485	3
4 Analog Outputs, Plus DNP/MODBUS on dedicated Multi-Mode Fiber	4
4 Analog Outputs, Plus DNP/MODBUS on dedicated VPIN Fiber	5
Dedicated serial 850 nm MM fiber interface for DNP/MODBUS and DNP/MODBUS master	6
Dedicated serial V-Pin fiber interface for DNP/MODBUS and DNP/MODBUS master	7
4 analog outputs, dedicated serial 850 nm MM fiber interface for DNP/MODBUS and DNP/MODBUS master	8
4 analog outputs, dedicated serial V-Pin fiber interface for DNP/MODBUS and DNP/MODBUS master	9

DIGITAL OPTION

Direct Fiber Winding Options Do Not Include Fiber Temperature Probe Accessories

Standard Features	0
21 Extra Optically Isolated Digital Inputs (DI)	1
42 Extra Optically Isolated DI	2
16 Form C Relay Outputs	3
4 Direct Fiber Winding Temperature (DFWT) Channels	4
21 Extra Optically Isolated DI & 4 Channel DFWT	5
45 Extra Optically Isolated DI & 4 Channel DFWT*	6
21 Extra Optically Isolated DI & 16 Form C Relay Outputs*	7
16 Form C Relay Outputs & 4 Channel DFWT*	8
8 Channel DFWT*	9
21 Extra Optically Isolated DI & 8 Channel DFWT*	A
16 Form C Relay Outputs & 8 Channel DFWT*	B

* INDICATES NO ANALOG OR EXTRA RTD NOT AVAILABLE

ANALOG OPTION

Analog Options

0	Standard Features
1	2 Extra CT inputs
2	3 High Speed CT Analysis Channels
3	4 Extra CT Inputs
4	2 Extra CT Inputs, 3 High Speed CTs
5	4 Extra CT Inputs, 3 High Speed CTs
6	8 Extra CT Inputs
7	8 Extra CT Inputs, 3 High Speed CTs
8	2 Analog Inputs
9	4 Analog Inputs
A	8 Analog Inputs
B	2 Analog Inputs, 6 CT Inputs
C	2 Analog Inputs, 6 CT Inputs, 3 High Speed CTs
D	4 Analog Inputs, 4 CT Inputs
E	4 Analog Inputs, 4 CT Inputs, 3 High Speed CTs
F	8 Analog Inputs, 3 High Speed CTs
G	GIC Detection
H	2 Extra CT Inputs, GIC Detection
J	4 Extra CT Inputs, GIC Detection
K	6 Extra CT Inputs, GIC Detection
L	2 Analog Inputs, GIC Detection
M	2 Analog Inputs, 4 CT Inputs, GIC Detection
N	4 Analog Inputs, 2 CT Inputs, GIC Detection
P	6 Analog Inputs, GIC Detection
Q	4 Analog Inputs, GIC Detection
R	GIC Detection with Split Core
S	2 Extra CT Inputs, GIC Detection with Split Core
T	4 Extra CT Inputs, GIC Detection with Split Core
U	6 Extra CT Inputs, GIC Detection with Split Core
V	2 Analog Inputs, GIC Detection with Split Core
W	2 Analog Inputs, 4 CT Inputs, GIC Detection with Split Core
X	4 Analog Inputs, 2 CT Inputs, GIC Detection with Split Core
Y	6 Analog Inputs, GIC Detection with Split Core
Z	4 Analog Inputs, GIC Detection with Split Core

EXTRA RTDs

Extra RTDs

0	Standard Features
1	1 Extra RTD

Note: Probes must be ordered separately using the TTC-PROBE Model Option Table

DFWT Specifications

Enclosure & Dimensions: 8.028 W x 4.882 H x 6.40 D Alodine Aluminum

Front Panel Dimensions: 8.378 W x 5.686 H

Power Supply Input Operating Range: 38 VDC to 290 VDC or 120 VAC +/- 10%, 10 Watts Max

Operating Temperature Range: -50 °C to +85 °C, 95% Relative Humidity (non condensing)

Temperature Measurement Accuracy: ± 2 °C Full Scale

Temperature Measurement Range: - 40 to 200 °C

Communications Interfaces: Front Panel Mounted RS-232 DB-9 Null Modem Interface

Ethernet: 10/100 Base-T metallic interface with transformer isolation of 1,500 Volts AC RMS in accordance with IEEE/ANSI 802.3

Surge Withstand/Fast Transient: Relay outputs and station battery inputs: ANSI C37.90.1

Electrostatic Discharge: IEC 801-2

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