



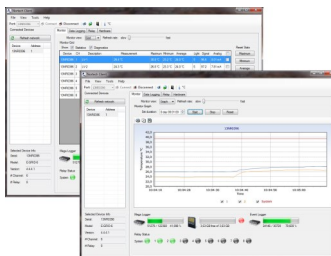
New Monitor
Flexible & Cost Effective
Fits your Requirements

**MULTI-CHANNEL FIBER-OPTIC
MONITOR / CONTROLLER
FOR ENERGY APPLICATIONS**

**Accurate, Reliable & Cost Effective Winding Hot Spot
Temperature Monitoring Solution for Transformers and Reactors**

Description

The Nortech EasyGrid LT is a cost effective, flexible, multi-channel fiber optic signal conditioner designed for direct, accurate and real-time temperature monitoring.



The Nortech Client Software allows full configuration and monitoring of your system.

It is now possible to consult the data logging information live on your computer without downloading the complete file.

The EasyGrid LT is available as a full-featured monitor to match your requirements and it offers on-board auto-diagnostic for easier system installation.

Select the relay option and use it as a fully configurable controller with complete communication capabilities.

For over 20 years, FISO has been the leader in Fiber-Optic White-Light Technology. The EasyGrid LT is using the temperature dependent band gap shift of the GaAs crystal to provide a fast and accurate measurement. Inherent to the technology, the system will not drift nor require any recalibration and the monitor Auto-Correct feature continuously compensates for internal temperature effects.

Furthermore, internal monitor temperature data logging allows tracking of your control equipment during extreme environmental conditions.

Key Features

- Real-time Temperature Monitoring
- 2 to 8 Channels, 1 Analog Output / Channel
- Large LCD Screen
- 0 or 8 Form-C Programmable Relays
- Internal Memory
- Modbus, Modbus TCP-IP*, IEC 61850*, IEC 60870-5-104*, DNP3.0*
- No Calibration Required
- Easy Front Panel Wiring
- Light Source Good for the Life of the Transformer
- Auto-Diagnostic & Auto-Correct
- Robust Design & 5 Year Warranty * Optional

Applications

- Power Transformer Winding & Core Hot Spot
- Power Transformer Top & Bottom Oil
- All types of Transformers (MV, HV, EHV, UHV, HVDC)
- Reactors, Generators, Switchgear
- Load Tap Changers

Specifications

Number of channels	2, 4, 6 or 8
Reading temperature range	-40 °C to 225 °C
Temperature accuracy	±1 °C
Resolution	0.1 °C
Sampling rate (per channel)	500 ms
Operating temperature	-20°C to 60°C
Storage temperature	-30°C to 85°C
Light source life	Life of the Transformer
Humidity	95% RH Non-Condensing
Display	Large LCD
Internal monitor temperature	CCD, Board & System Temperature Available with data logging

* Optional

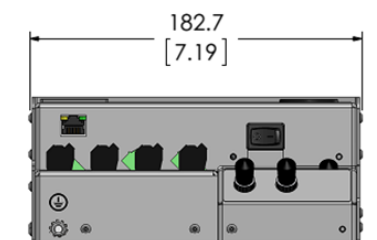
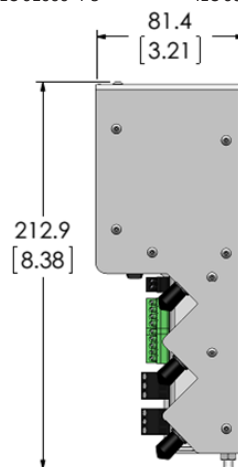
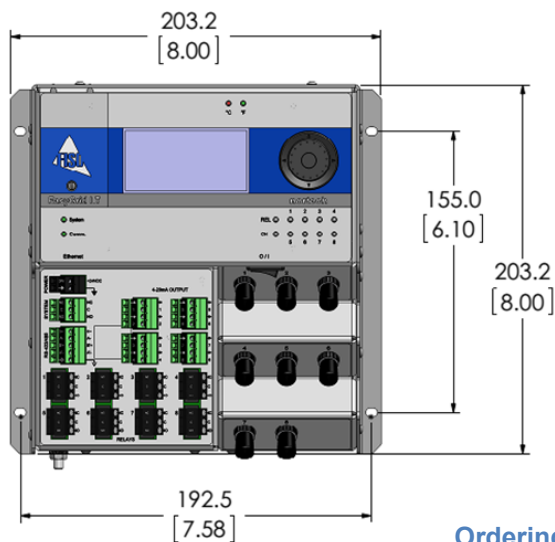
Environmental standards

MIL-STD-810G	Transport vibrations
IEC 60255-21-1	Vibration: response , endurance
IEC 60255-21-2	Shock
IEC 60255-21-3	Seismic test

Communication ports	USB, RS-485, RS-422 & Ethernet (RJ45)*
Communication Protocols	Nortech, Modbus (ASCII / RTU), Modbus TCP-IP*, IEC 61850*, IEC 60870-5-104*, DNP3.0*.
Analog Output	4 -20 mA, User Configurable
Relays	8 Form-C Relays, User Configurable Also Available without Relays
System fault relay	1 Dedicated System Fault Relay
System Status Indicator	LED
Memory	> 1.8 Years at 1 Measurement / 1 Min. > 9 Years at 1 Measurement / 5 Min.
Auto-Correct	Continuous Internal Temperature Compensation
Auto-Diagnostic	Light Level, Signal Level
Input Power	24 VDC
Power consumption	15W (maximum)
Surge Protection	4000V (IEEE C37.90.1 -2002)

Immunity standards

EN 61326	IEC 61000-4-6	IEC 60255-22-3
EN 55011	IEC 61000-4-8	IEC 60255-22-4
IEC 61000-4-2	IEC 61000-4-9	IEC 60255-22-5
IEC 61000-4-3	IEC 61000-4-11	IEC 60255-22-6
IEC 61000-4-4	IEC 61000-4-18	IEC 60255-5
IEC 61000-4-5	IEC 60255-22-2	IEC 60255-22-1



Ordering Information

