



NEW WS LINE

Free from any wiring thanks to the certified 2.4 GHz WiFi interface, the **NEW WS LINE** makes installation even easier and faster. It can be connected to a pre-existing WiFi network (Host mode) and controlled remotely.



In the Access Point mode, it is also possible to dialogue with the monitoring unit within the WiFi range.



The 2.4 GHz signal strength is guaranteed by the presence of an external antenna which, in case of need, can be disconnected and repositioned to obtain a greater coverage.

Equipped with a simple graphical interface for displaying the information detected on the state of the transformer, it offers the possibility to intervene for programming and configuring the system.

The alarms are saved internally to the WS unit, through a datalogger function - WebServer - which makes the new WS line a sort of **transformer Black Box**.

The temperature trend is visualized through a graph with selectable time windows, allowing predictive evaluations on the health status of the transformer:

Without having to install dedicated Apps or Software, but only thanks to the use of an Internet Browser!

In addition to the standard certification, the **WS LINE** is **RED certified** for the limitations of Radiofrequency noises, as required by current regulations.

New “**smarts**” products for a market that is attentive to the reduction of waste in the environment and resources, as well as being sensitive to an increasingly necessary concept such as preventive maintenance.

Tools designed for a 4.0 World!



**WINNER OF
CWIEME BERLIN 2018 Awards
Category : Evolution 4.0**



POWER SUPPLY

Rated values 85-260 Vac-dc 50/60 Hz
Vdc with reversible polarities

INPUTS

4 or 8 inputs RTD Pt100 3 wires
Removable rear terminals
Input channels protected against electromagnetic interference
Sensor length cable compensation up to 500 m (1 mm²)

OUTPUTS

alarm relays (ALARM-TRIP)
2 alarm relays for fan control (FAN1 and FAN2)
1 alarm relay for sensor fault or working anomaly (FAULT)
Output contacts capacity: 10A-250 Vac-res COSΦ=1
Wi-Fi connection: protocols 802.11 b/g/n, frequency 2.4 GHz with removable external antenna

TESTS AND PERFORMANCES

Assembling in accordance to CE and RED rules
Protection against electromagnetic noises CEI-EN61000-4-4
Dielectric strength: 1500 Vac for 1 minute from relays to sensors, relays to power supply, power supply to sensors
Accuracy: ± 1% full scale value ± 1 digit
Ambient operating temperature: from -20°C to +60°C
Humidity: 90% non-condensing
Self-extinguishing housing NORYL 94_V0
Polycarbonate frontal film IP65
Burden: 7,5VA
Digital linearity of sensor signal
Self-diagnostic circuit
Option: tropicalization

DISPLAYING AND DATA MANAGEMENT

2 displays 13 mm with 3 digits for displaying temperatures, messages and channels
3 leds to display the state of the alarms of the selected channel
2 leds to display the state of FAN1 and FAN2
Temperature monitoring from 0°C to 240°C
1 ALARM threshold for each channel
1 TRIP threshold for each channel
2 ON-OFF thresholds for FAN1 and FAN2 in common for all enabled channels
Sensors diagnostic (Fcc-Foc-Fcd)
Data storage diagnostic (Ech)
Access to programming through front keyboard
Automatic exit from relay programming, display and test after 1 minute's inactivity
Incorrect programming warning
Possibility of setting automatic channels scanning, hottest channel, manual scanning
Maximum reached temperatures and alarm storage
Frontal alarm reset push button
Voting function
Intellifan function (only for 4 channel version)
Fail Safe function
Wi-Fi WEB SERVER function
Synchronization with SERVER NTP (Network Time Protocol) in STATION mode

DIMENSIONS

100 x 100 mm DIN 43700 depth 150 mm
(terminals and antenna - installed at 90° - included)
Panel cut-out 92 x 92 mm

