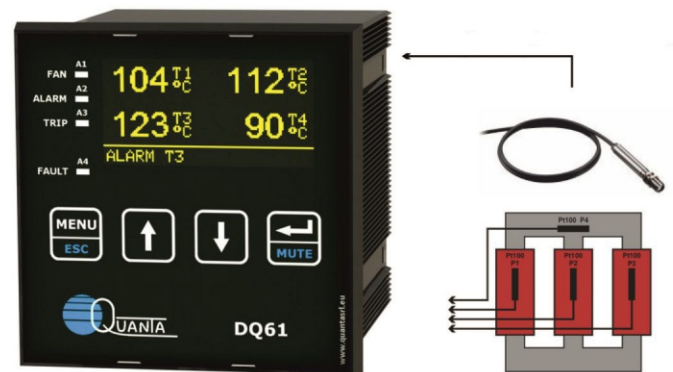# DQ61-IR
CONTROL AND THERMAL MONITORING

The DQ61-IR is a temperature controller designed for use on electrical machines such as transformers, motors, generators. Protects the machine from overloads that lead to temperature rise of the windings by commanding the ignition of the fans to maintain the temperature of the transformer within normal working limits.

It has a high contrast graphic OLED display, which allows the simultaneous display of the four monitored temperatures and of the three alarms.

The scrolling menus make programming the control unit quick and clear and immediately read the alarm signals.

The four analog inputs can be configured individually for Pt100, Pt1000 or contactless IR sensors (for example model OPTRIS OPTCSTCLT15)

N.4 sensor compatible inputs for:
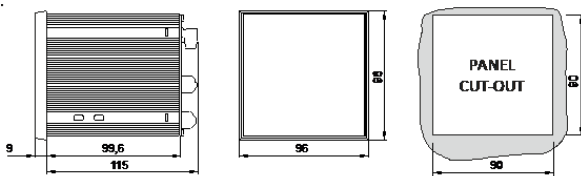• Pt100
• Pt1000
• Contactless IR sensor

GENERAL CHARATTERISTICS

• Frontal and initial logo customizable on the display
• Disabling single probe alarms
• Maximum temperature memory reached for each probe
• Integrated partial and total counters for worked hours
• Pt100, Pt1000 and contactless IR sensors inputs
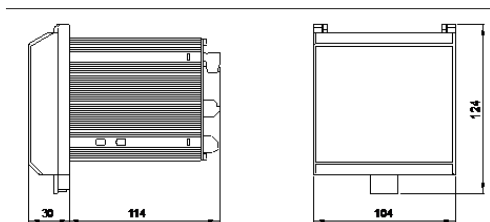• Optional RS485 communication interface with MODBUS protocol

DQ61-IR

TECHNICAL FEATURES

- **Input Voltage** — 90-240Vac-dc ±10% 47-63Hz; 16-26Vac/dc
- **Available inputs (in alternative to each other)** — N°4 Pt100/Pt1000/contactless IR sensor

- **Cable lengts compensation for Pt100/Pt1000 sensors** — Up to 500m (0,.5 mmq)
- **External connections** — Spring clamps for Pt100/Pt1000/contactless IR sensor; plug-in connectors for relay and power supply
- **Temperature range** — -20 … +200°C
- **Accuracy Pt100 sensor** — Better than 0,4°C ±1 digit
- **Accuracy Pt1000 sensor** — Better than 1°C ±1 digit
- **Output relay** — N°4 SPDT 5A 250V for ALARM and TRIP
- **Display** — Graphic OLED 2,4"   128x64 pixel
- **Keyboard** — Capacitive touch
- **Alarms signaling** — With 4 dedicated LED and text message on display
- **Menu language** — Italian, English, French, Espanol, more on request
- **Unit of measure** — °C o °F
- **Mounting** — Front panel
- **Building according CE directives** — 2014/35/UE (Low Voltage) and 2014/30/UE (EMC)
- **Protection against electrical noise** — EN61326-1
- **Frontal protection** — IP40, IP54 optional
- **Ambient operating temperature** — -20 … +60°C
- **Ambient operating humitity** — Max 90% no-condensing
- **MTBF** — Better than 100.000 hours
- **Data storage** — More than 10 years
- **Recorded data** — Each channel Max temperature; Each alarm number of activactions
- **Remote control (optional)** — Optoisolated RS485, MODBUS RTU protocol

DIMENSIONS mm

IP 54 DIMENSIONS mm

Dimensions