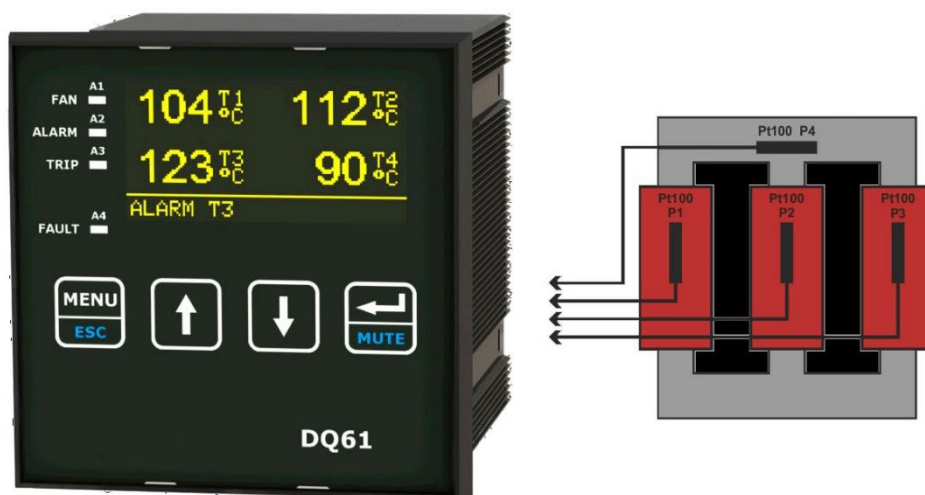


TEMPERATURE MONITORING UNIT FOR TRANSFORMERS DQ61



DQ61 device is a temperature controller specifically designed for electrical equipment such as transformers, motors, generators.

DQ61 protects the machine when overload can lead to a rise in the temperature of the windings. Moreover, it controls the fans to maintain the temperature of the machine and preserve the normal working conditions.

The DQ61 detects alarm conditions and intervenes disconnecting the transformers before they come to a dangerous situation.

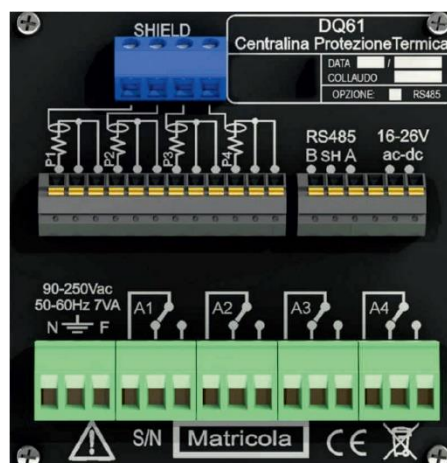
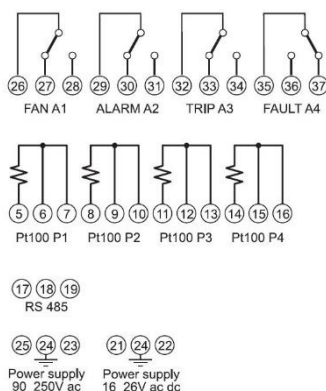
A self-diagnostic system continuously monitors the status of the temperature sensors and of the internal system, reporting potential anomalies. It can handle up to four temperature sensors Pt100 and three alarm stages.

The model DQ61 is a front panel mountable with overall dimensions of 96x96mm (3.77"x3.77" 4.5" depth)

An Oled high contrast graphic display allows the simultaneous visualization of the four temperatures monitored and of the alarms.

The scrolling menu helps and guides the parameters programming with clear messages, in the language selected by the operator

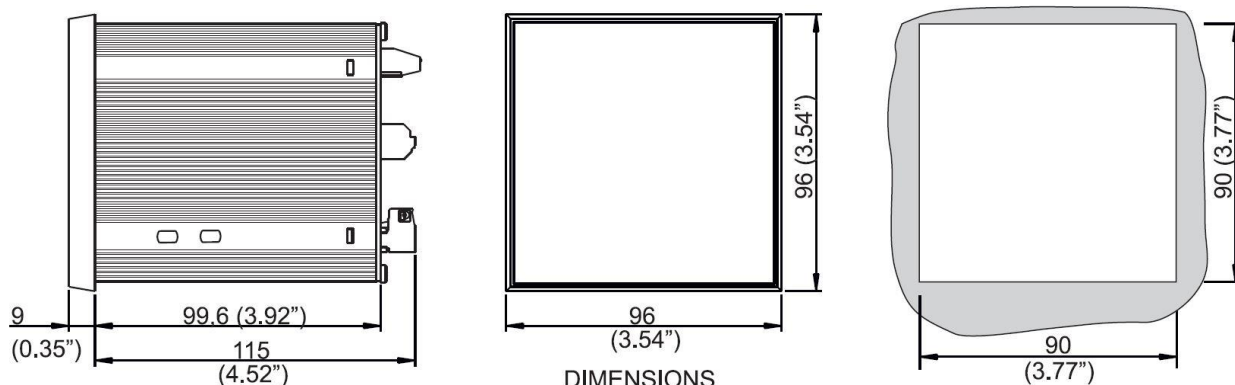
TERMINAL BLOCKS



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TEMPERATURE MONITORING UNIT FOR TRANSFORMERS

DQ61



DIMENSIONS

TECHNICAL SPECIFICATION

– Power supply	Universal 90...240Vdc/Vac 50/60Hz and 16...26Vdc/ac, <4VA
– Input voltage range	± 10%
– Available inputs	N°4 RTD Pt100 3 wires
– Cable length compensation	Up to 500m (0,5mm2)
– External connections	Terminals wiring up to AWG 17 for Pt100 un up to AWG 14 for power and relays
– Temperature range	-20 ... +200°C
– Accuracy	Better than 0,4°C ±1 digit
– Output alarm relays	N°2 SPDT 5A 250V for alarm and TRIP
– Output fan relay	N°1 SPDT 5A 250V
– Output fault relay	N°1 SPDT 5A 250V
– Display	Graphic OLED 2,4" 128x64 pixel
– Keyboard	Touch Capacitive
– Alarms and signals	4 dedicated led with test message on display
– Menu Language	English, Espanol, French, Italian, more on request
– Unit of measure	°C or °F
– Dimensions	Front 96x96mm, depth 115mm
– Mounting	Front panel
– Panel cut-out	90x90mm
– Building according to CE directives	2006/95/CEE (Low voltage) and 2004/108/CEE (EMC)
– Protection against electric noise	EN61326-1
– Dielectric strength	2500Vca for 1 minute
– Isolation	Better than 100MOhm at 500Vcc ground-other terminals
– Frontal protection	IP40, IP65 optional
– Ambient operating temperature	-20 ... +60°C
– Ambient operating humidity	Max 90% not condensing
– MTBF	Better than 100.000 h
– Data storage	More than 10 years
– Recorded data	Max temp on each channel; Each alarm number of activations
– Remote control (optional)	Optoisolated RS485, MODBUS RTU protocol
– weight	330 g. (unit only) 350 g. (with manual and packing)

Self diagnosis with error signal on the FAULT relay.

Integrated counters (partial and total) for hours of work done

Ability to schedule the regular switch-on of the fans from the service menu

FCD function: ability to set an alarm if the temperature change is too fast (°C/s) from the service menu

Ability to disable alarms for probes P1 P2 and P3 from the service menu

Ability to disable alarm activation for probe P4 from user menu

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PT100 TEMPERATURE PROBE PT1001M-25

DESCRIPTION

Pt100 thermometer sensor with extensible cable and 3 shielded conductors with 2.5m standard length (other size on request).

TECHNICAL DETAILS

Operating temperature $-40 \div 220^{\circ}\text{C}$

Protection level: IP68

PROBE/SENSOR ELEMENT

Type: RTD Pt100 ohm at 0°C

Coefficients: $\alpha=0,385 \Omega/^{\circ}\text{C}$

Calibration: IEC 751, BS 1904

Accuracy: Class B

CABLE

Flexible tinned copper wires 3 x 24 AWG

Primary insulation: silicon rubber

Aluminium foil shield

Secondary insulation: grey silicone rubber

TESTS

Temperature isolation at room temperature ($>5000 \text{ M } \Omega$ 2500 Vdc)

Dielectric strength: 5KVac for 60"

KEY FEATURES

- Operating temperature $-40 \div 220^{\circ}\text{C}$
- Protection level: IP68
- Class B accuracy
- Reliable cables for industrial application
- 5KVac isolation for 60'



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