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NEX

THERMAL CONTROL DEVICE FOR TRANSFORMERS, MOTORS AND ELECTRIC GENERATORS

- Easy and practical user's data programming.
- With 16x2 LCD display to simultaneously show all the measured temperatures.
- Equipped with four 3 wires Pt100 input channels, each individually configurable as off.
- Relay outputs for: fan activation, alarm trip, probes damage or general alarm signal.

TECHNICAL SPECIFICATIONS

Power supplyAlimentazione

- Nominal line voltage and frequency: 24 ÷ 380 Vdc e 24 ÷ 260 Vac at 40÷60 Hz
- Maximum line voltage: 20 ÷ 390 Vdc e 20 ÷ 265 Vac
- Vdc with reversible polarity
- Maximum power consumption 1.5 VA
- Protection against radiated and conducted noise

Outputs

- 4 output relays with a rated current/voltage 5 A/260 Vac.
- One relay for the 1st setpoint level (Typically fan control).
- One relay for the 2nd setpoint level(Typically pre-alarm).
- One relay for the 3rd setpoint level (Typically trip of the electrical unit).
- One relay for probe fault or generic anomaly signaling (Typically general alarm).
- Connection of outputs with removable terminal blocks with a 5 mm pitch for wires with a cross-section of 0.2 ~ 2.5 mm² / 24 ~ 12 AWG.

Inputs

- 4 analog inputs channels for 3 wires Pt100 probes complaiance with requirement DIN 43760.
- Connection with removable terminal blocks with 3.5 mm pitch for wires with cross-section of 0.1 ~ 1.5 mm² / 28 ~ 16 AWG di sezione.
- Cable lenght compensation up to 500 m (1 mm² section).
- Detection for broken or not connected probes.
- Compliant with EN61000-6-X and EN50121-5 standards.

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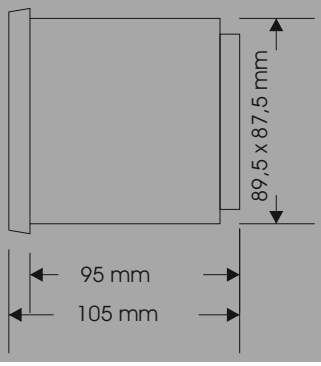
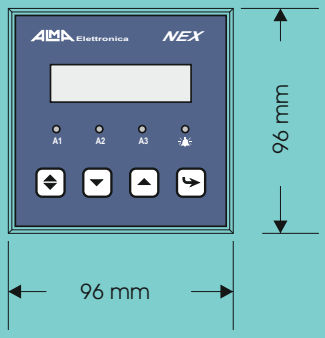
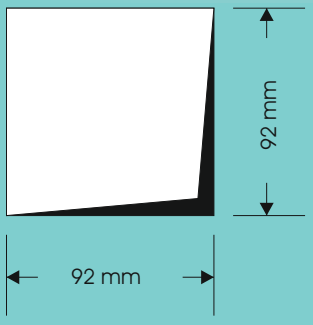
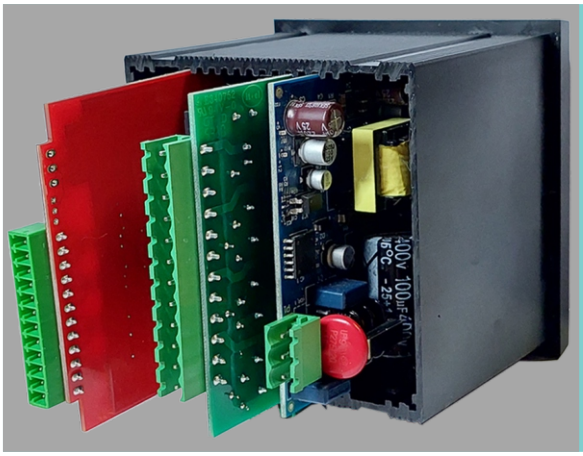
Device dimensions

- Front dimension 96 mm x 96 mm compliance with DIN 43700 requirement. Device length 105 mm.
- Suited for front panel mount.
- Panel cut-out 92 mm x 92 mm.
- PPO self-extinguishing container
- Touch panel made anti-scratch, long-lastint polyester









Performances

- Temperatures monitoring from -50 °C to 200 °C
- Temperature measurements accuracy: ± 0,5% full scale, ± 1 digit.
- Digital linearization of the probes compliance with DIN 43760 requirement.
- Operating temperature range: from -25 °C to +65 °C.
- Humidity lower than 95% non-condensing.
- Self-diagnostic device functionality.
- Alarm signal for anomalies, or incorrect user data programming.

Displaying and data management

- High-contrast 16 x 2 LCD display to contemporary show the 4 measured temperatures.
- 3 leds indicating A1, A2, A3 alarm levels.
- 1 led indicating general anomalies or probe fault.
- Safety time out exit from programming procedure after 30 seconds without operation.
- 3 temperature levels programming for 3 input channels.
- 3 temperature levels programming for the 4th input channel.
- Hysteresis, alarm memory, delay and impulse data programming individually

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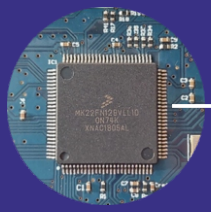
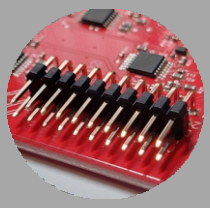
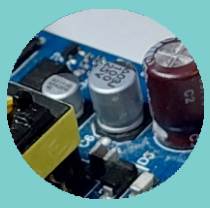


32bit ARM CPU



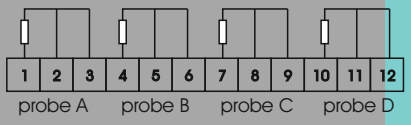
Gold plated connectors



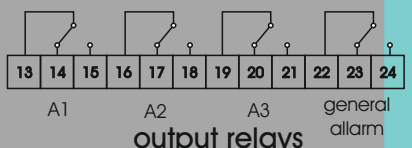
Ultra wide Vac input

VDR protections device on output contacts

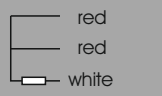
Electrical Connections



input probes Pt100



output relays



probe Pt100

power supply

Typical Probes Configuration