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ELECTRONIC ON - OFF DIFFERENTIAL THERMOSTAT TED 786

- Power supply 220/240 Volt ac; IP 20 Protection
- Constructed in DIN 96 x 48 casing with undecal socket for panel or DIN rail mounting
- Control of differential between two temperatures with SPDT On-Off output

APPLICATION

The TED 786 electronic differential thermostat is designed for use in all circumstances where it is necessary to intervene in relation to the differential between two temperatures:

- Control of pump in solar plants
- Control of dynamic systems for heat recovery
- Control of calorifier pump in installations with wood-fired boilers

OPERATION

Detector B1 measures the low temperature T1 and detector B2 measures the high temperature T2. TED 786 compares the two values, and, when the differential T2 - T1 exceeds the set value ΔT On (fig. 4.2), energises the output relay (contacts 11-9 open and 11-10 closed); it de-energises the relay (contacts 11-9 closed and 11-10 open) when the differential returns below the set value Δt Off (fig. 4.3).

The activation of the relay is indicated by the "On" LED on the facia (fig. 4.1).

CONSTRUCTION

Constructed in DIN 96 x 48 casing with undecal socket for the electrical connections; IP 20 protection (fig.3).

The electronic unit is constructed according to Italian Electrotechnical Committee (CEI) specifications.

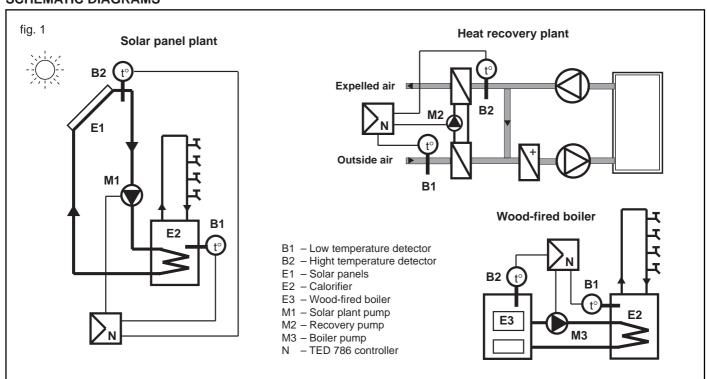
TED 786 is suitable for panel or DIN rail mounting inside a cabinet for electrical equipment.



SUITABLE DETECTORS

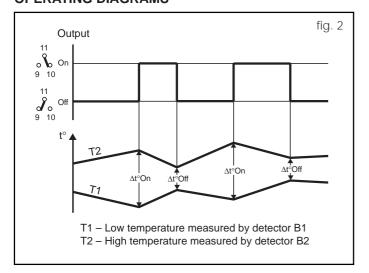
Model	Description	Pocket	Data sh.
SCH 010 SIH 010 STA 010 SAF 010 GIS 090 GIS 160 GIS 500	Surface detector Immersion detector Air duct detector Cable-type detector Pocket for SAF detector Pocket for SAF detector Pocket for SAF detector	- 1/2"x90 mm. - 1/2"x90 mm. 1/2"x160 mm. 1/2"x500 mm.	N 130 N 140 N 150 N 145 N 145 N 145 N 145

SCHEMATIC DIAGRAMS

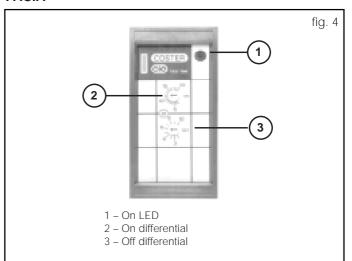




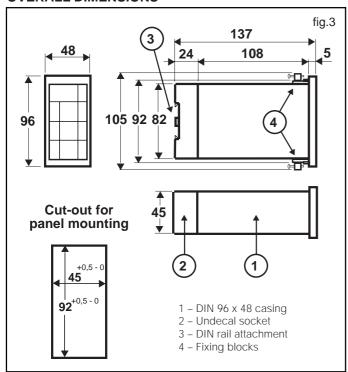
OPERATING DIAGRAMS



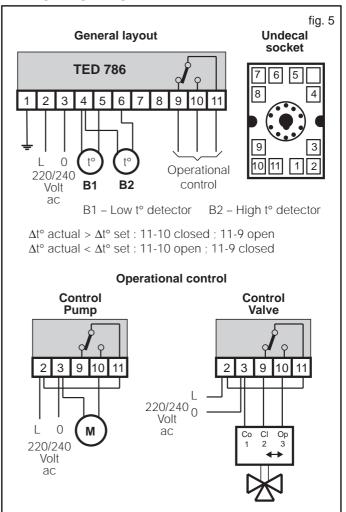
FACIA



OVERALL DIMENSIONS



WIRING DIAGRAMS



TECHNICAL DATA

operatingstorage

Protection

Weight

Power supply 220/240 Volt ac Consumption 2 VA NTC 10 $k\Omega$ Suitable detectors Output contact: - type **SPDT** 250 Volt c.a. - maximum voltage applicable maximum capacity 5 (1) A Differential: 3 to 20 °C $-\Delta t^{\circ}$ ON -∆t° OFF 1 to 10 °C Room temperature:

0 to 45 °C - 20 to + 60 °C IP 20 Kg. 0.360

ELECTRICAL CONNECTIONS

Connections are made using normal cables for low voltage. For connecting the detectors use cables having cores with a 1 mm² cross section for distances up to 500 metres.



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