

TS 170
TS 470

MODELLO / MODEL

TERMOMETRO / THERMOMETER
TERMOSTATO / THERMOSTAT

INGRESSO PTC / NTC
INPUT Pt100-Ni120 2 or 3 w.
 TC "J" / "K"
 0/4 ÷ 20 mA
 universal

TS 70

ALIMENTAZIONE / SUPPLY

012 ← 12 Vac/dc (not insulated)
024 ← 12÷24 Vac/dc (not insulated)
020 ← 24 Vac (insulated)
115 ← 115 Vac (insulated)
230 ← 230 Vac (insulated)

*** only for TS170 model**

OPZIONI / OPTIONS

INSTALLAZIONE

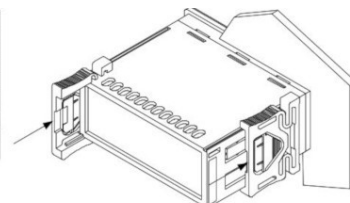
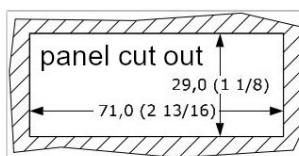
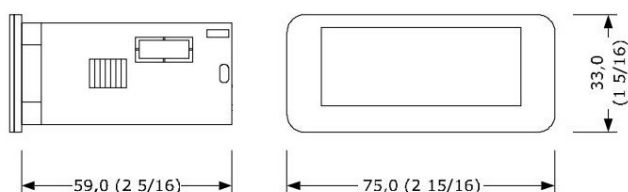
Per una corretta installazione riferirsi agli schemi allegati.
 Accertarsi che le condizioni di impiego (tensione di alimentazione, temperatura ambiente, umidità) rientrino nei limiti per cui è previsto l'apparecchio.
 Non sovraccaricare l'uscita a relè oltre i limiti consentiti.
ATTENZIONE: L'apparecchio non è protetto contro i sovraccarichi: dotare l'uscita di adeguate protezioni.
 Prevedere inoltre, in funzione della sorgente di alimentazione, una protezione in grado di limitare la corrente assorbita dallo strumento in caso di guasto.

MOUNTING NOTES

For a proper mounting, please refer to the enclosed diagrams.
 Be sure that the conditions of use (voltage of power-supply, environment temperature, humidity) are within the limits for which the instrument has been designed.
 Do not overload the relay-output beyond the indicated limits.
WARNING: The instrument is not protected from overloads: so it is necessary to give the output the suitable protections;
 besides that, according to the source of power-supply, find a protection able to limit the quantity of current absorbed by the instrument in case of failure.

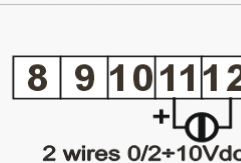
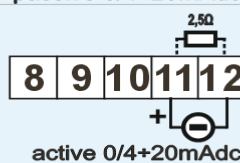
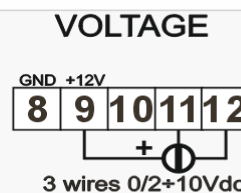
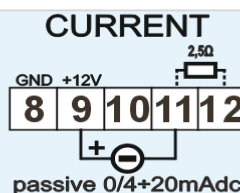
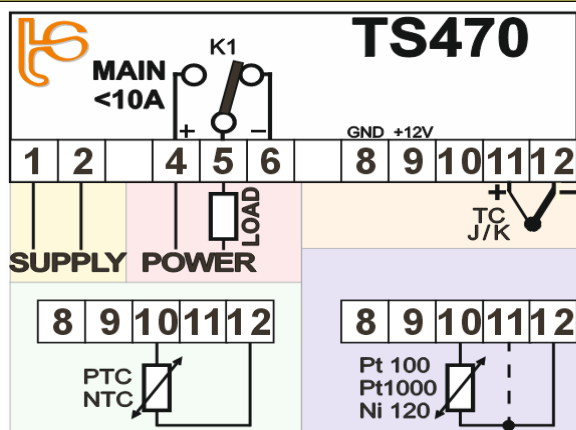
DIMENSIONE - DIMA - MONTAGGIO

SIZE - PIERCING TEMPLATE - MOUNTING



CONNESSIONI ELETTRICHE

ELECTRICAL CONNECTIONS



CARATTERISTICHE TECNICHE

TECHNICAL SPECIFICATIONS

Case: self-extinguishing black plastic cat. D
Size: 75x33x59mm [2 15/16x1 5/16x2 5/16 inch].
Frontal prot.: IP65.
Mounting: panel-mounting with fixing brackets.
Environment temp.: from 0 to +55°C [32÷131°F].
Humidity: 10...90% not condensing.
Connections: screw connectors (2,5mm²).
Pollution stat.: 2
Compliance: RoHS 2011/65/EC | WEEE 2012/19/EU
 REACH (EC) Reg. 1907/2006
 EMC 2014/30/EU | LVD 2014/35/EU
Power-supply: 12-24 Vac/dc <5VA (not insulated)
 or 230Vac <4VA (insulated by transformer)
 on request 12 Vac/dc <5VA (not insulated)
 or 24Vac <4VA (insulated by transformer)
 or 115Vac <4VA (insulated by transformer)
Measure input: one configurable, hardware depending
 - PTC(990Ω@25°C) or NTC(10KΩ@25°C, B=3435),
 - * Pt100 or Ni120 2/3 wires, - * Pt1000,
 - 'J' and 'K' thermocouples,
 - * 0-20 / 4-20 mA 2/3 wires, - * 0-10 / 2-10V signal.
 - universal for 'J' or 'K' TC, PTC or NTC probe,
 Pt100 or Pt1000 or Ni120 2/3 wires,
 0÷20 / 4÷20 mA 2/3 wires or 0÷10 / 2÷10V signal.

Range of measure: (°C/°F selectable indication)

PTC :- 50÷ + 150°C - 58÷ + 302°F
 NTC :- 40÷ + 110°C - 58÷ + 230°F
 TC 'J' : 0÷ + 700°C 32÷ + 999°F
 TC 'K' : 0÷ + 999°C -140÷ + 999°F
 Pt100/0 2/3 w. :-100÷ + 650°C -180÷ + 999°F
 Ni120 2/3 w. :- 80÷ + 300°C -112÷ + 999°F

current :-199÷ + 999 pts (configurable)

voltage :-199÷ + 999 pts (configurable)

Resolution: 0,1°C or 1°C or 1°F for PTC and NTC;
 0,1°C or 1°C or 1°F for Pt 100, Pt1000, Ni120 ;
 1°C or 1°F for thermocouples, mA, V.

Range of programming: over the whole range of measure

Display: 3 digits display, output-status indicator.

Alarm buzzer: on request.

Output **: one SPDT16A/250Vac relay K1 Type 1 - C.
 [≤ 10A for screw connectors (2,5mm²)]

Weight ≤ 200g.

NOTES: * solo per termometro/only for thermometer (TS 170).

** solo per termostato / only for thermostat (TS 470).



THERMOSYSTEMS s.r.l.

Via delle Industrie, 8 - 24040 Fornovo S. Giovanni (BG) - ITALY

phone: (+39) 0363 350159

fax: (+39) 0363 350362

web: www.thermosystems.it

e-mail: info@thermosystems.it