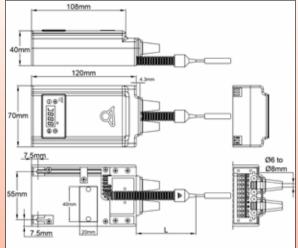
Distance temperature measurement (digital)





This control box has the smallest footprint and the lowest price of the Y range with waterproof enclosure. It has a modern and aesthetic design, and the same professional concept than other products of this range.

Because of their small size (120 x 70 x 40 mm), these controls can be wall mounted with 2 screws 55 mm distance, hand held or just simply laid on the working table

Ingress protection rating: IP54 (IEC 60529)
Mechanical impact resistance: IK05 (EN 62262) Digital display not included.

Flammability: UL94-V0

Electrical connection: on a closed screw terminal connection block cavity located backside, for wire gauges up to 2.5 mm². Cables are secured by a saddle Power supply: 90-250VAC, 50 or 60Hz

Temperature control action: ON-OFF or PID with auto-tune function

Differential: adjustable when on-Off action is selected

Mounting: Wall mounting, for screws dia. 4 to 6 mm, 55 mm distance

Identification: Location backside for 20 x 40 mm identification label, adhesive or riveted Electrical contact: Relay output, 10A 250V AC res (15 A120V AC). Open on rise or close on rise action can be selected

Temperature sensor: This control can be supplied with or without sensor. The cable can be protected by a plastic flexible corrugated tube.

This controller is multi sensor type, user settable with the following input choice:

Parameters	Sensor	Temperature range (°C)	
t	Type T Thermocouple	-200~400	
J	Type J Thermocouple	-200~700	
E	Type E Thermocouple	-200~900	
K	Type K Thermocouple	-200~1300	
r	Type R Thermocouple	-50~1600	
S	Type S Thermocouple	-50~1600	
b	Type B Thermocouple	350~1800	
W	Type WRE Thermocouple	0~2300	
Cu50	Cu50	-50.0~150.0	
Pt100	P100	-199~600	
Pt10.0	P10	-199.9~600.0	

Wiring diagram



Main references without cords

Main features	Reference
Without temperature sensor	Y5F090A0000NUDF2
With PT100 RTD, 5 x 30 mm SS probe, 2 m protected cable	Y5FR9BA0000NUDF2
With PT100 RTD, 5 x 30 mm SS probe, 2 m un- protected cable	Y5FR9CA0000NUDF2
With K thermocouple, 5 x 30 mm SS probe, 2 m protected cable	Y5FK9BA0000NUDF2
With K thermocouple, 5 x 30 mm SS probe, 2 m un-protected cable	Y5FK9CA0000NUDF2

* Reference with Male Euro 1m H05-VVF-3G1 cord+ no connector euro1m H05-VVF-3G1 cord: replace 0000 by EJHJ Reference with 2 euro cords 1m H05-VVF-3G1 without connector or plug: replace 0000 by HJHJ Reference with UL SJT 3 x AWG16, 1m Male cord + SJT 3 x AWG16, 1m Female cords: replace 0000 by UJVJ Reference with Male UL SJT 3 x AWG16, 1m cord + no connector UL SJT 3 x AWG16, 1m cord: replace 0000 by UJSJ Reference with 2 UL SJT 3 x AWG16 1m cords without connector or plug: replace 0000 by SJSJ



Because of permanent improvement of our products, drawings, descriptions, features used on these data sheets are for guidance only and can be modified without prior advice

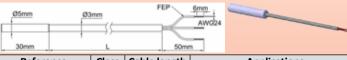


Stopper pocket for liquid temperature measurement inside bottles, carboys and other containers. Dia. 8 mm, length adjustable from 100 to 500 mm.

Reference 66DI08500FL

Standard temperature sensors

PT100



Reference	Class	Cable length	Applications
TSR50030I2000AK6	Α	2000 mm	Remote sensing
TSR50030I2000BK6	В	2000 mm	Remote sensing
TSR50030I0070AK6	Α	70 mm	Room temperature sensing
TSR50030I0070BK6	В	70 mm	Room temperature sensing
TSR50030I0150AK6	Α	150 mm	Room temperature sensing
TSR50030I0150BK6	В	150 mm	Room temperature sensing

Temperature range: -50 to 550° C (-60 to 1020° F) on the ceramic substrate, but temperature in use limited to 200° C due to the FEP connecting cable

Temperature curve: EN 60751 (100 ohms @ 0°C, 138.5 Ohms @

Accuracy and tolerances: (according to EN 60751)

Class A, ±0.15°C @ 0°C; (±0.06 Ω @ 0°C) Class B, ±0.3°C @ 0°C. (±0.12 Ω @ 0°C).

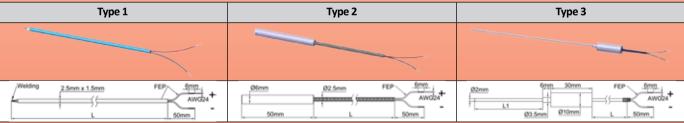
Protection pocket: Stainless Steel 304, dia. 5mm x 30 mm

Temperature range: -50C, +200°C

Connection cable: • 3 wires, 0.35 mm², FEP insulation + silver-plated copper braid + FEP, temperature resistance 200°C, external diameter 2.7 mm (0.127").
• Ends: stripped

Polarity: The two red wires are connected together at their welded junction to one of the chips ceramic substrate terminal and the white wire is connected to the other terminal.

K Thermocouple



Temperature curve: according to EN 60584-1 and IEC 584-1

Accuracy and tolerances: Class 2 according to EN 60584-1 and 2, ±2.5°C within -40 °C and 333 °C

Polarity (according to DIN 43714): red = positive, blue= negative

Reference	Probe type	Probe temperature range	Cable	Туре
TPR00060W10002F4	bare	-50+200°C	2 x 0.35mm ² , 200°C FEP insulated L= 1m	1
TPR00060W20002F4	bare	-50+200°C	2 x 0.35mm ² , 200°C FEP insulated L= 2m	1
TPR60050I10002E4	SS 304 dia. 6mm x 50 mm	-50C, +200°C	2×0.35 mm2, O.D 2.7 mm nickel plated braid L = 1 m	2
TPR60050I20002E4	SS 304 dia. 6mm x 50 mm	-50C +200°C	2 x 0.35mm2, O.D 2.7 mm nickel plated braid L = 2 m	2
TPR20200R20002E4	Refractory SS, dia. 2 mm L1= 200 mm sheathed probe	-40+800°C	2 x 0.35mm2, O.D 2.7 mm nickel plated braid L2 = 2 m	3
TPR20400I20002E4	Refractory SS, dia. 2 mm L1= 200 mm sheathed probe	-40+800°C	2 x 0.35mm2, O.D 2.7 mm nickel plated braid L2 = 2 m	3

Options









Standard version: grommet cable output for cables from 4 to 8.6 mm OD SJT 3 x AWG16 cord, length 1m, with 15A UL recep- SJT 3 x AWG16 cord , length 1m, with 15A UL plug tacle



SJT 3 x AWG16 cord, length 1m, without plug



H05VV-F 3G1.5 cord, length 1m, with Euro plug



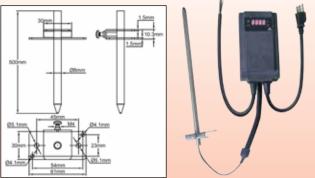
H05VV-F 3G1.5, length 1m, cord without plug



Knob high/ low limit stop setting. Can be used on mechanical thermostat or electronic thermostat types

Reference

6YBUR001



Stopper pocket for liquids temperature measurement inside bottles, carboys and other containers. Dia 8 mm, length adjustable from 100 to 500 mm. Not usable on room temperature measurement types.

Reference

66DI08500FL

Options



Standard version: grommet cable output for cables from 4 to 8.6 mm OD



receptacle



SJT 3 x AWG16 cord, length 1m, with 15A UL SJT 3 x AWG16 cord, length 1m, with 15A UL



SJT 3 x AWG16 cord, length 1m, without plug





H05VV-F 3G1.5 cord, length 1m, with Euro H05VV-F 3G1.5, length 1m, cord without plug