



**Temperature
measurement
and control
for industry:
sensors,
transmitters,
controllers
and solid
state relays**

| | | | |
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COMPONENTS FOR TEMPERATURE SENSORS, CABLES & CONNECTORS

Process mounts

Watertight compression fitting in stainless steel



| Reference | Sheath diameter dimensions | Thread |
|-------------|----------------------------|----------|
| L078827-000 | 1.5 mm | 1/8" NPT |
| L078830-000 | 3 mm | 1/4" NPT |
| L078833-000 | 4.5 mm | 1/4" NPT |
| L078836-000 | 6 mm | 1/4" NPT |
| L078841-000 | 8 mm | 1/4" NPT |
| L078838-000 | 6 mm | 1/2" NPT |

Ensures the fitting and watertightness of the sensor to the installation. Can be used on all sheathed sensors. The ferrule, in stainless steel, is clinched onto the sensor's sheath. Pressure resistance up to 200 bars and can withstand temperature up to 600 °C.

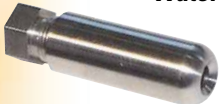
Connection base for bayonet style mount



| Reference | Thread | Length | Diameter | Material | Ø inside bayonet |
|-------------|-----------|--------|----------|-----------------|------------------|
| P01.6050.27 | M10x100 | 28 mm | 10.3 mm | Nickelled brass | 10.6 mm |
| P01.6050.28 | M10x150 | 28 mm | 10.3 mm | Nickelled brass | 10.6 mm |
| P01.6050.30 | M12x175 | 28 mm | 10.3 mm | Nickelled brass | 10.6 mm |
| P01.6050.38 | M14x150 | 27 mm | 14.5 mm | Stainless steel | 15.3 mm |
| P01.6050.39 | G3/8 cyl. | 27 mm | 14.5 mm | Stainless steel | 15.3 mm |
| P01.6050.36 | M12x100 | 35 mm | 12 mm | Nickelled brass | 12.5 mm |

For assembling TF4/5/6/16 thermocouples with bayonet sockets (see p. 8).

Watertight compression fitting in stainless steel, for the food industry



| Reference | Sheath diameter dimensions | Length | Diameter |
|-------------|----------------------------|--------|----------|
| L228109-000 | 5 mm | 54 mm | 16 mm |
| L228117-000 | 6 mm | 54 mm | 16 mm |

To be welded to the installation's pipework. Used on all sheathed sensors. Adjustable mounting on sensor with a twist-locking system. 316 L stainless steel for the food processing industry, pharmaceuticals... Pressure resistance up to 10 bars and can withstand temperature up to 200 °C.

Compensating connectors for thermocouples

It is simply a matter of connecting a thermocouple to a compensation cable. Their large-surface contacts are the same type as thermocouple wires. Can withstand temperature up to 220 °C.

Standard connectors



| Reference | Plug/Jack | Color |
|-------------|---------------|-------|
| L12547J-000 | male J type | Black |
| L12547K-000 | male K type | Green |
| L12548J-000 | female J type | Black |
| L12548K-000 | female K type | Green |
| L125490-000 | cable clamp | — |

Duplex connectors



| Reference | Plug/Jack | Color |
|-------------|---------------|-------|
| L12543J-000 | male J type | Black |
| L12543K-000 | male K type | Green |
| L12544J-000 | female J type | Black |
| L12544K-000 | female K type | Green |
| L125499-000 | cable clamp | — |

Miniature connectors



| Reference | Plug/Jack | Color |
|-------------|---------------|-------|
| L12587J-000 | male J type | Black |
| L12587K-000 | male K type | Green |
| L12588J-000 | female J type | Black |
| L12588K-000 | female K type | Green |
| L125890-000 | cable clamp | — |

Extension and compensation cable reels

Extending your thermocouple up to the instrumentation loop

Cables, 2 conductors, for J, K and S type thermocouples.
Available in reels of 50, 100 or 250 m.

PVC insulation / PVC sheath - Withstands up to 80 °C

| 50 m reel | 100 m reel | 250 m reel | Type of TC | Cable type | Class | Diameter |
|-------------|-------------|-------------|------------|--------------|---------|----------|
| L921201-120 | L922201-120 | L923201-120 | J | extension | class 1 | 0.2 mm |
| L921401-120 | L922401-120 | L923401-120 | K | extension | class 1 | 0.2 mm |
| L921501-110 | L922501-110 | L923501-110 | K | compensation | class 2 | 0.2 mm |
| L921601-110 | L922601-110 | L923601-110 | S | compensation | class 2 | 0.2 mm |

Glass silk insulation - Glass silk braid / Stainless steel braid - Withstands up to 250 °C

| 50 m reel | 100 m reel | 250 m reel | Type of TC | Cable type | Class | Diameter |
|-------------|-------------|-------------|------------|--------------|---------|----------|
| L921409-110 | L922409-110 | L923409-110 | K | compensation | class 2 | 1.34 mm |
| L921609-110 | L922609-110 | L923609-110 | S | compensation | class 2 | 1.34 mm |



PROGRAMMABLE TEMPERATURE TRANSMITTERS

Installed on DIN rail, they output a 4-20 mA signal and avoid the costly use of extension cables

PC programmable with the C.A 3299 kit. 3.75 kV galvanic insulation. Input types: Pt100/1000, Ni100/1000, TC, resistance, voltage (mV, V), current (mA). Programmable current / voltage output: 0 to 20 mA and 0 to 10 V DC.

Transmitters - 2-wire assembly or 4-wire assembly

| Reference | Assembly | Model 1 or 2 channels |
|-------------|----------|------------------------|
| P01.6720.03 | 2-wire | C.A 3310A - 1 channel |
| P01.6720.13 | 2-wire | C.A 3310B - 2 channels |
| P01.6720.02 | 4-wire | C.A 3220A - 1 channel |
| P01.6720.12 | 4-wire | C.A 3220B - 2 channels |

Programming kit

| Reference | Designation |
|-------------|---|
| P01.6725.01 | C.A 3299 programming kit for 2- and 4-wire Transmitters |

Isolating transmitters - 4-wire assembly (4/20 mA < 4/20 mA)

| Reference | Model 1 or 2 channels |
|-------------|------------------------|
| P01.6720.01 | C.A 3210A - 1 channel |
| P01.6720.11 | C.A 3210B - 2 channels |

Accessories

| Reference | Designation |
|-------------|---------------------------------|
| P01.6723.01 | Connector CSF 59100 - Channel 1 |
| P01.6723.02 | Connector CSF 59130 - Channel 2 |



TEMPERATURE SENSORS

CADID assemblies

Straight pyrometric insertions for high temperature measurement. DAN type electrical connection in ingress protected head. Perfectly adapted for metal industries, heat treatments, etc.

Normal series: up to 1100 °C

| Reference | Type of assembly | Thermocouple: number and type | Length of sheath |
|-------------|------------------|-------------------------------|------------------|
| L602000-001 | B | K | 600 mm |
| L602000-002 | B | K | 1000 mm |
| L602000-003 | B | 2 x K | 600 mm |
| L602000-004 | B | 2 x K | 1000 mm |
| L603000-001 | C | S | 600 mm |
| L603000-002 | C | S | 1000 mm |

Type B: metallic sheath in inconel 600.

Type C: same as B with a double-insulated interior sheath in ceramic 610.





High temperature series: up to 1500 °C

| Reference | Type of assembly | Thermocouple: number and type | Length of sheath |
|-------------|------------------|-------------------------------|------------------|
| L608000-001 | H | K | 600 mm |
| L608000-002 | H | K | 1000 mm |
| L608000-003 | H | S | 600 mm |
| L608000-004 | H | S | 1000 mm |
| L609000-001 | J | S | 600 mm |
| L609000-002 | J | S | 1000 mm |
| L609000-003 | J | 2 x S | 600 mm |
| L609000-004 | J | 2 x S | 1000 mm |

Type H: ceramic 610 sheath (for K-type TC) or in alumina 710 (for S-type TC)

Type J: ceramic 530 sheath with a double-insulated interior sheath in alumina 710

Sheathed thermocouples

These thermocouples (J and K types) are fabricated in accordance to the NF-EN 61-615 standard.

Usable up to 600 °C with a sheath in stainless steel 304L and up to 1150 °C with a 6mm diameter sheath in inconel 600.

Type TCG3: stainless steel or inconel sheathed, PVC extension cable output

| Reference | Type of TC | Type of sheath | Diameter of sheath | Length of sheath | Cable length |
|-------------|------------|----------------------|--------------------|------------------|--------------|
| L220322-524 | J | Stainless steel 304L | 1 mm | 1000 mm | 2 m |
| L220323-507 | J | Stainless steel 304L | 1.5 mm | 150 mm | 2 m |
| L220323-714 | J | Stainless steel 304L | 1.5 mm | 500 mm | 4 m |
| L220323-524 | J | Stainless steel 304L | 1.5 mm | 1000 mm | 2 m |
| L220325-509 | J | Stainless steel 304L | 3 mm | 250 mm | 2 m |
| L220325-514 | J | Stainless steel 304L | 3 mm | 500 mm | 2 m |
| L220325-524 | J | Stainless steel 304L | 3 mm | 1000 mm | 2 m |
| L220352-514 | K | Inconel 600 | 1 mm | 500 mm | 2 m |
| L220354-514 | K | Inconel 600 | 2 mm | 500 mm | 2 m |
| L220354-524 | K | Inconel 600 | 2 mm | 1000 mm | 2 m |
| L220355-509 | K | Inconel 600 | 3 mm | 250 mm | 2 m |
| L220355-714 | K | Inconel 600 | 3 mm | 500 mm | 4 m |
| L220355-524 | K | Inconel 600 | 3 mm | 1000 mm | 2 m |
| L220355-534 | K | Inconel 600 | 3 mm | 2000 mm | 2 m |

Type TCG6: sheathed in stainless steel or inconel, standard male connector output

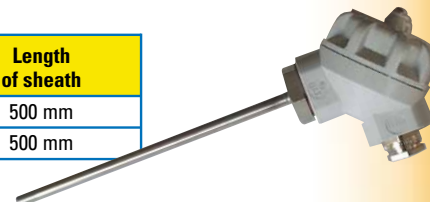
| Reference | Type of TC | Type of sheath | Diameter of sheath | Length of sheath |
|-------------|------------|----------------|--------------------|------------------|
| L220624-024 | J | Inox 304L | 2 mm | 1000 mm |
| L220625-014 | J | Inox 304L | 3 mm | 500 mm |
| L220625-034 | J | Inox 304L | 3 mm | 2000 mm |
| L220652-014 | K | Inconel 600 | 1 mm | 500 mm |
| L220654-010 | K | Inconel 600 | 2 mm | 300 mm |
| L220654-024 | K | Inconel 600 | 2 mm | 1000 mm |
| L220654-034 | K | Inconel 600 | 2 mm | 2000 mm |
| L220654-038 | K | Inconel 600 | 2 mm | 3000 mm |
| L220655-009 | K | Inconel 600 | 3 mm | 250 mm |
| L220655-014 | K | Inconel 600 | 3 mm | 500 mm |
| L220655-024 | K | Inconel 600 | 3 mm | 1000 mm |
| L220655-034 | K | Inconel 600 | 3 mm | 2000 mm |
| L220655-038 | K | Inconel 600 | 3 mm | 3000 mm |
| L220657-024 | K | Inconel 600 | 6 mm | 1000 mm |
| L220657-029 | K | Inconel 600 | 6 mm | 1500 mm |

Extension pieces for TCG6: PVC cable with standard female connector

| Reference | Type | Length |
|-------------|------|--------|
| L225602-020 | J | 2 m |
| L225603-020 | K | 2 m |

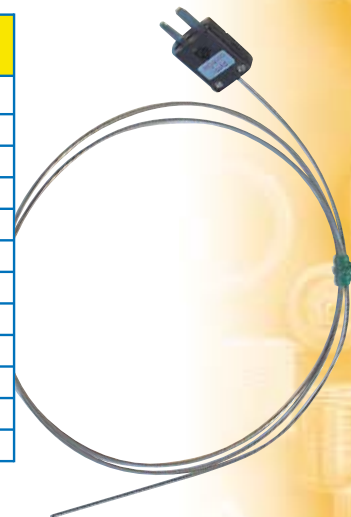
Type TCG7: sheathed in stainless steel or inconel, PM connection head output

| Reference | Type of TC | Type of sheath | Diameter of sheath | Length of sheath |
|-------------|------------|----------------------|--------------------|------------------|
| L220727-014 | J | Stainless steel 304L | 6 mm | 500 mm |
| L220757-014 | K | Stainless steel 304L | 6 mm | 500 mm |



Type TCG11: sheathed in stainless steel or inconel, miniature male connector output

| Reference | Type of TC | Type of sheath | Diameter of sheath | Length of sheath |
|-------------|------------|----------------------|--------------------|------------------|
| L221122-009 | J | Stainless steel 304L | 1 mm | 250 mm |
| L221123-014 | J | Stainless steel 304L | 1.5 mm | 500 mm |
| L221123-024 | J | Stainless steel 304L | 1.5 mm | 1000 mm |
| L221152-009 | K | Inconel 600 | 1 mm | 250 mm |
| L221152-016 | K | Inconel 600 | 1 mm | 600 mm |
| L221152-024 | K | Inconel 600 | 1 mm | 1000 mm |
| L221152-034 | K | Inconel 600 | 1 mm | 2000 mm |
| L221153-014 | K | Inconel 600 | 1.5 mm | 500 mm |
| L221153-024 | K | Inconel 600 | 1.5 mm | 1000 mm |
| L221153-038 | K | Inconel 600 | 1.5 mm | 3000 mm |
| L221154-020 | K | Inconel 600 | 2 mm | 800 mm |
| L221154-024 | K | Inconel 600 | 2 mm | 1000 mm |



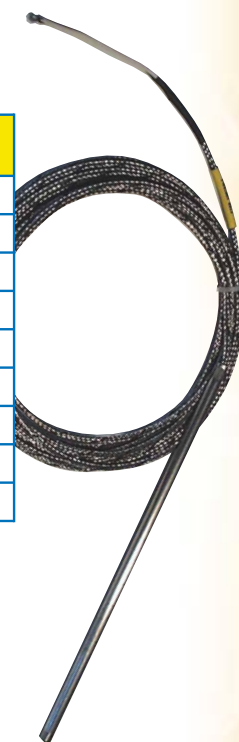
Extension pieces for the TCG11: PVC cable with miniature female connector

| Reference | Type | Length |
|-------------|------|--------|
| L225702-020 | J | 2 m |
| L225703-020 | K | 2 m |

Thermocouple sensors for general use

These thermocouples (J and K types) are fabricated in accordance to the NF-EN 60-584 standard. They are protected with a sheath in stainless steel 316L and usable up to 400 °C.

| Reference | Type of TC | Diameter of sheath | Length of sheath | Hot junction | Cable length |
|-------------|------------|--------------------|------------------|--------------|--------------|
| L915165-001 | J | 3.2 mm | 50 mm | grounded | 1 m |
| P07.6028.08 | J | 5 mm | 200 mm | grounded | 2.5 m |
| P07.6028.09 | J | 5 mm | 200 mm | grounded | 5 m |
| P07.6028.18 | J | 5 mm | 200 mm | insulated | 2.5 m |
| P07.6028.19 | J | 5 mm | 200 mm | insulated | 5 m |
| P07.6028.35 | J | 6 mm | 200 mm | grounded | 2.5 m |
| P07.6028.36 | J | 6 mm | 200 mm | insulated | 2.5 m |
| P07.6028.37 | J | 6 mm | 200 mm | grounded | 5 m |
| P07.6028.38 | J | 6 mm | 200 mm | insulated | 5 m |



Sheathed RTD 100 Ω sensors with cable output

These 3-wire platinum probe sensors are sheathed in stainless steel 316L.

Temperature up to + 200 °C . Class B as per NFC 42-330

| Reference | Diameter of sheath | Length of sheath | Type of cable | Cable length |
|-------------|--------------------|------------------|---------------------------------|--------------|
| L300114-507 | 6 mm | 150 mm | PVC | 2 m |
| L300114-510 | 6 mm | 300 mm | PVC | 2 m |
| L301114-507 | 6 mm | 150 mm | silicon | 2 m |
| L301114-510 | 6 mm | 300 mm | silicon | 2 m |
| L301214-507 | 6 mm | 150 mm | PTFE | 2 m |
| L301214-510 | 6 mm | 300 mm | PTFE | 2 m |
| P07.6041.09 | 6 mm | 100 mm | PTFE | 2.5 m |
| P07.6041.12 | 6 mm | 200 mm | PTFE | 1.5 m |
| P07.6041.48 | 3 mm | 60 mm | PTFE | 1 m |
| P07.6040.28 | 10 mm | 135 mm | silicon + stainless steel braid | 1 m |
| P07.6040.30 | 10 mm | 230 mm | silicon + stainless steel braid | 1 m |
| P07.6040.95 | 10 mm | 165 mm | silicon + stainless steel braid | 1 m |
| P07.6040.97 | 10 mm | 265 mm | silicon + stainless steel braid | 1 m |
| P07.6040.98 | 10 mm | 265 mm | silicon + stainless steel braid | 2.5 m |



Temperature up to + 450 °C . Class A as per NFC 42-330

| Reference | Diameter of sheath | Length of sheath | Type of cable | Cable length |
|-------------|--------------------|------------------|---------------|--------------|
| L330111-506 | 1.6 mm | 100 mm | PVC | 2 m |
| L330111-509 | 1.6 mm | 250 mm | PVC | 2 m |
| L330112-506 | 3.2 mm | 100 mm | PVC | 2 m |
| L330112-509 | 3.2 mm | 250 mm | PVC | 2 m |
| L330114-506 | 6 mm | 100 mm | PVC | 2 m |
| L330114-508 | 6 mm | 200 mm | PVC | 2 m |
| L330114-514 | 6 mm | 500 mm | PVC | 2 m |

Sheathed RTD 100 Ω sensors with a Souriau connector output

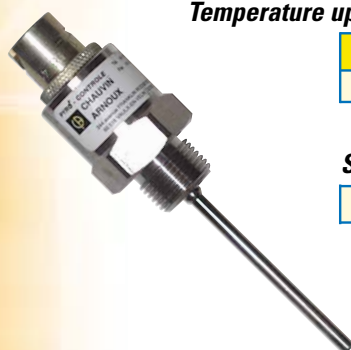
This 3-wire platinum probe sensor is sheathed in stainless steel 316L.

Temperature up to + 450 °C . Class A as per NFC 42-330

| Reference | Diameter of sheath | Length of sheath | Mounting with threading |
|-------------|--------------------|------------------|-------------------------|
| L330310-004 | 4 mm | 60 mm | M 18 x 150 |

Souriau extension piece

| | |
|-------------|---|
| L126010-000 | 3 pins with cable clamp (without cable) |
|-------------|---|



Sheathed RTD 100 Ω sensors with connecting head output

These platinum probe sensors are sheathed in stainless steel 316L and equipped with different standardized head models. The sensitive element is Class B as per NF-C 42-330 standard (temperature up to + 200 °C) or Class A (temperature up to + 450 °C)

| Reference | Type | Mounting | Connector | Diameter of sheath | Length of sheath |
|-----------|------|----------|-----------|--------------------|------------------|
|-----------|------|----------|-----------|--------------------|------------------|

Temperature up to + 200 °C , Class B, PM head output

| | | | | | |
|-------------|----|-------------|-------------------|------|--------|
| L300514-010 | S5 | 1 x 3 wires | without | 6 mm | 300 mm |
| L300614-010 | S6 | 1 x 3 wires | G 1/2" and sleeve | 6 mm | 300 mm |
| L300914-010 | S9 | 1 x 3 wires | G 1/2" | 6 mm | 300 mm |

Temperature up to + 200 °C , Class B, MA head output

| | | | | | |
|-------------|----|-------------|---------|------|--------|
| L305114-007 | S5 | 1 x 3 wires | without | 6 mm | 150 mm |
| L305114-010 | S5 | 1 x 3 wires | without | 6 mm | 300 mm |
| P07.6040.22 | S9 | 1 x 3 wires | G 1/2" | 5 mm | 150 mm |
| P07.6040.23 | S9 | 1 x 3 wires | G 1/2" | 5 mm | 300 mm |
| P07.6040.24 | S9 | 1 x 3 wires | G 1/2" | 5 mm | 600 mm |

Temperature up to + 200 °C , Class B, DIN B head output

| | | | | | |
|-------------|---------|-------------|---------|------|--------|
| L305314-010 | S52-200 | 1 x 3 wires | without | 6 mm | 300 mm |
|-------------|---------|-------------|---------|------|--------|

Temperature up to + 450 °C , Class A, PM head output

| | | | | | |
|-------------|----|-------------|-------------------|------|--------|
| L330514-008 | S5 | 1 x 3 wires | without | 6 mm | 200 mm |
| L330514-014 | S5 | 1 x 3 wires | without | 6 mm | 500 mm |
| L330534-014 | S5 | 2 x 2 wires | without | 6 mm | 500 mm |
| L330614-008 | S6 | 1 x 3 wires | G 1/2" and sleeve | 6 mm | 200 mm |
| L330914-006 | S9 | 1 x 3 wires | G 1/2" | 6 mm | 100 mm |
| L330914-007 | S9 | 1 x 3 wires | G 1/2" | 6 mm | 150 mm |
| L330914-008 | S9 | 1 x 3 wires | G 1/2" | 6 mm | 200 mm |
| L330914-011 | S9 | 1 x 3 wires | G 1/2" | 6 mm | 350 mm |

Temperature up to + 450 °C , Class A, MA head output

| | | | | | |
|-------------|-----|-------------|---------|------|--------|
| L335114-007 | S51 | 1 x 3 wires | without | 6 mm | 150 mm |
| L335114-010 | S51 | 1 x 3 wires | without | 6 mm | 300 mm |
| L335134-010 | S51 | 2 x 2 wires | without | 6 mm | 300 mm |

Temperature up to + 450 °C , Class A, DAN head output

| | | | | | |
|-------------|--------|-------------|---------|------|--------|
| P07.6041.31 | 107-03 | 1 x 3 wires | without | 5 mm | 150 mm |
| P07.6041.32 | 107-03 | 1 x 3 wires | without | 5 mm | 300 mm |
| P07.6041.33 | 107-03 | 1 x 3 wires | without | 5 mm | 600 mm |
| P07.6041.34 | 107-03 | 1 x 3 wires | without | 6 mm | 150 mm |
| P07.6041.36 | 107-03 | 1 x 3 wires | without | 6 mm | 600 mm |

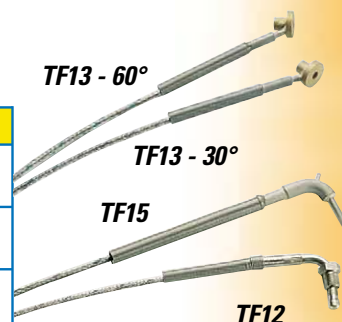


Type L thermocouples for plastics industry

Stainless steel sheathed thermocouples, with grounded hot junction. 2m glass silk and stainless steel braid cable, 2 spade terminal tag output.

Temperature up to + 400 °C

| Reference | Type | Mounting | Tip | Sheath |
|-------------|-----------------------------|---------------------------------------|------------------------------|----------------------------|
| P01.6029.08 | elbowed TF12 | swivel connector M 8x100 | rounded Ø 6 mm | 32 mm plunge 60 mm neck |
| P01.6029.10 | TF13 for flat surface - 30° | screw in circular plate Ø int. 4.2 mm | Ø ext. 14 mm height 10 mm | 30° inclination |
| P01.6029.11 | TF13 for flat surface - 60° | screw in circular plate Ø int. 4.2 mm | Ø ext. 14 mm height 10 mm | 60° inclination |
| P01.6029.09 | TF15 elbowed | pin | rounded Ø 3.5 mm | 20 mm plunge 80 mm neck |



Type J or L thermocouples, for plastics industry, with bayonet mounting

Thermocouples with stainless steel sheathed tip, with grounded hot junction.
2 m glass silk and stainless steel braid cable, 2 terminal spade tag output.

Temperature up to + 400 °C

| Reference | Type | TC | Rounded tip | Spring | Bayonet |
|-------------|----------------------|----|------------------------------------|--------------|----------------|
| P01.6029.05 | TF5 | J | Ø 5 x 30 mm | Ø 5 x 200 mm | Ø int. 10.6 mm |
| P01.6029.07 | TF6 | J | Ø 6 x 30 mm | Ø 5 x 200 mm | Ø int. 10.6 mm |
| P01.6029.06 | TF5 R reduced tip | J | Ø 5 and reduction Ø 2.5 x 12 mm | Ø 5 x 200 mm | Ø int. 10.6 mm |
| P01.6029.01 | TF16 | L | Ø 8 x 12 mm | Ø 7 x 200 mm | Ø int. 12.5 mm |
| P01.6029.02 | TF16D6 | L | Ø 6 x 12 mm | Ø 6 x 200 mm | Ø int. 12.5 mm |
| P01.6029.03 | TF4 | L | Ø 8 x 12 mm | Ø 7 x 200 mm | Ø int. 15.5 mm |
| P01.6029.04 | TF4D6 | L | Ø 6 x 12 mm | Ø 6 x 200 mm | Ø int. 15.5 mm |

IRTC infrared pyrometric sensors

Measurement without surface temperature contact. Delivers a J or K type output signal.
FEP insulated cable, in stainless steel braid, length 0.9 m. 2% accuracy for a 0.9 emissivity target.

Thermocouple output

| Reference | Model | TC type output | Temperature range |
|-------------|----------|----------------|-------------------|
| P01.6061.01 | IRTC 140 | J | 25 to 80 °C |
| P01.6061.02 | IRTC 140 | K | 25 to 80 °C |
| P01.6061.03 | IRTC 180 | J | 70 to 104 °C |
| P01.6061.04 | IRTC 180 | K | 70 to 104 °C |
| P01.6061.05 | IRTC 240 | J | 95 to 130 °C |
| P01.6061.06 | IRTC 240 | K | 95 to 130 °C |
| P01.6061.07 | IRTC 280 | J | 125 to 155 °C |
| P01.6061.08 | IRTC 280 | K | 125 to 155 °C |
| P01.6061.09 | IRTC 340 | J | 145 to 175 °C |
| P01.6061.10 | IRTC 340 | K | 145 to 175 °C |
| P01.6061.11 | IRTC 440 | J | 170 to 250 °C |
| P01.6061.12 | IRTC 440 | K | 170 to 250 °C |

HUMIDITY SENSORS

Humidity sensors HUMITOP

Model " 80 ": sensors with plunger for installation in housings or air ducts

Model " 120 ": sensors for making atmosphere measurements

Type H: relative humidity measurement from 30 % to 100 % RH

Type HT: temperature and humidity measurement, from 0 to 80 °C

Type HY: hygrometric detectors with 1 or 2 adjustable thresholds. Output on changeover contacts.

Setpoint adjustable inside the case (version i) or accessible from the outside.

| Reference | Type / Model | Function |
|-------------|--------------|---|
| P01.6071.01 | H 80 | Humidity, with plunger |
| P01.6071.02 | HT 80 | Humidity and temperature, with plunger |
| P01.6072.01 | H 120 | Humidity, for ambient air |
| P01.6072.02 | HT 120 | Humidity and temperature, for ambient air |
| P01.6075.01 | HY 80 | Humidity detector with 1 threshold, with plunger |
| P01.6075.02 | HY 80-2 | Humidity detector with 2 thresholds, with plunger |
| P01.6076.01 | HY 120 | Humidity detector with 1 threshold, for ambient air |
| P01.6076.02 | HY 120-2 | Humidity detector with 2 thresholds, for ambient air |
| P01.6076.04 | HY 120-2i | Humidity detector with 2 thresholds (internal), for ambient air |

Accessories for sensors with plungers

| Reference | Designation |
|-------------|----------------------------|
| P01.6079.01 | Bracket for wall mounting |
| P01.6079.02 | Protective aluminum sheath |

Model 120

ANALOGUE TEMPERATURE CONTROLLERS

Particularly easy to use, these analogue controllers are used for basic control applications and temperature monitoring purposes, for example, in plastics technology and food processing.

Analogue controllers - 48x48 mm format (1/16 DIN)

STATOP 4841 : Proportional or On/Off control. Bicolored control leads.

STATOP 4842 : Idem + 2 variance indicators (temperature measured above or below the setpoint value)

| Reference | Input* | Scale* | Control output* | Variance indicator | Power supply |
|-----------|-----------------------|---------------------------|---|---------------------|------------------|
| ST 4841 | TC J or K or Pt 100 Ω | 0...100 °C to 0...1200 °C | Changeover contact relay or logic voltage | — | 200 V to 260 VAC |
| ST 4842 | TC J or K or Pt 100 Ω | 0...100 °C to 0...1200 °C | Changeover relay or logic voltage | 2 (above and below) | 200 V to 260 VAC |

*NB: When ordering, specify the input type, measurement scale and control output.



Analogue controllers - 96x96 mm format (1/4 DIN)

STATOP 4 : Proportional-derived or On/Off control. Control output by changeover relay.

| Reference | Input | Scale | Alarm output | Power supply |
|-------------|--|------------|--------------|------------------|
| P01.6136.01 | TC J | 0...300 °C | — | 115 V to 230 VAC |
| P01.6136.02 | TC J | 0...400 °C | — | 115 V to 230 VAC |
| P01.6137.01 | Pt 100 Ω | 0...120 °C | — | 115 V to 230 VAC |
| P01.6140.01 | TC J | 0...300 °C | — | 115 V to 230 VAC |
| P01.6140.02 | TC J | 0...400 °C | — | 115 V to 230 VAC |
| P01.6141.01 | Pt 100 Ω | 0...120 °C | — | 115 V to 230 VAC |
| P01.6144.01 | TC J | 0...300 °C | Relay | 115 V to 230 VAC |
| P01.6144.02 | TC J | 0...400 °C | Relay | 115 V to 230 VAC |
| P01.6145.01 | Pt 100 Ω | 0...120 °C | Relay | 115 V to 230 VAC |
| P01.6140.11 | TC J | 0...300 °C | — | 24 V to 230 VAC |
| P01.6149.01 | Replacement: Multi-purpose housing for STATOP 4 | | | |

STATOP 9601 : Proportional or On/Off control. Luminous output indicator.

STATOP 9604 : Idem + digital display: 2000 measurement counts.

| Reference | Input * | Scale * | Control output | Alarm output | Power supply |
|-----------|-----------------------|---------------------------|-------------------------------------|--------------|------------------|
| ST9601 | TC J or K or Pt 100 Ω | 0...100 °C to 0...1200 °C | Changeover relay | — | 115 V to 230 VAC |
| ST9604 | TC J or K or Pt 100 Ω | 0...100 °C to 0...1200 °C | Changeover relay or logic voltage * | — | 90 V to 260 VAC |
| ST9604 | TC J or K or Pt 100 Ω | 0...100 °C to 0...1200 °C | Changeover relay or logic voltage * | Relay | 90 V to 260 VAC |

*NB: When ordering, specify the input type, measurement scale and control output for the STATOP 9604.



DIGITAL TEMPERATURE CONTROLLERS

These controllers benefit from an autotuning P-I-D action function and integrate fuzzy logic.

Simple to use: the controller itself determines the parameters which are best suited for the process and applies them automatically. They are equipped with ramp, soak, and dwell functions.

Digital controllers 24x48 mm format (1/32 DIN)

STATOP 2449 : 10,000-count display. Front panel IP 65 ingress protected. 1 control channel and 1 alarm or 2 control channels without alarm. Input configurable for J, K, T, E, B, R, S, N type TCs or for Pt 100 Ω or analogue, voltages (0...1 V, 0...5 V, 1...5 V, 0...10 V) or currents (0...20 mA, 4...20mA).

| Reference | Control output | Alarm output | Power supply |
|-------------|----------------------------|--------------|-----------------|
| P01.6251.01 | Relay | — | 90 V to 260 VAC |
| P01.6251.02 | Relay | Relay | 90 V to 260 VAC |
| P01.6251.03 | Logic voltage | Relay | 90 V to 260 VAC |
| P01.6251.04 | Analogue current 4...20 mA | Relay | 90 V to 260 VAC |
| P01.6251.05 | Analogue current 0...20 mA | Relay | 90 V to 260 VAC |
| P01.6251.06 | Analogue current 0...10 mA | Relay | 90 V to 260 VAC |



Digital controllers 48x48 mm format (1/16 DIN)

STATOP 4849 : 2 x 10,000-count displays, measurement and setpoint. 1 control channel and 1 alarm. Input configurable for J, K, T, E, B, R, S, N type TCs or for Pt 100 Ω.

| Reference | Control output | Alarm output | Power supply |
|-------------|----------------------------|--------------|-----------------|
| P01.6205.01 | Changeover relay | — | 90 V to 260 VAC |
| P01.6205.02 | Changeover relay | Relay | 90 V to 260 VAC |
| P01.6205.03 | Logic voltage 24 V- 20 mA | — | 90 V to 260 VAC |
| P01.6205.04 | Logic voltage 24 V- 20 mA | Relay | 90 V to 260 VAC |
| P01.6205.05 | Analogue current 4...20 mA | Relay | 90 V to 260 VAC |





STATOP 4850: 2 x 10,000-count displays, measurement and setpoint. Front panel IP 65 ingress protected. 1 control channel and 2 alarms or 2 control channels and one alarm. Input configurable for J, K, T, E, B, R, S, N type TCs or for Pt 100 Ω or analogue, voltages (0...1 V, 0...5 V, 1...5 V, 0...10 V) or currents (0...20 mA, 4...20mA).

| Reference | Control output 1 | Control output 2 | or Alarm output 2 | Alarm output 1 | Power supply |
|-------------|----------------------------|------------------|-------------------|----------------|-----------------|
| P01.6254.01 | Relay | — | — | — | 90 V to 260 VAC |
| P01.6254.03 | Relay | Relay | Relay | Relay | 90 V to 260 VAC |
| P01.6254.04 | Logic voltage 24 V - 20 mA | Relay | Relay | Relay | 90 V to 260 VAC |
| P01.6254.06 | Logic voltage 24 V - 20 mA | Relay | Relay | Relay | 90 V to 260 VAC |
| P01.6254.07 | Analogue current 4...20 mA | Relay | Relay | Relay | 90 V to 260 VAC |

Accessories for 48x48 format

| Reference | Designation |
|-------------|-----------------------------------|
| L918602-000 | 48x48 base for DIN rail |
| L880910-000 | 96x96 bracketing for 48x48 format |

Digital controllers 48x96 mm format (1/8 DIN)



STATOP 4897: 2 x 10,000-count displays, measurement and setpoint. 1 control channel and 2 alarms. Input configurable for J, K, T, E, B, R, S, N type TCs or for Pt 100 Ω.

| Reference | Control output | Alarm output 1 | Alarm output 2 | Power supply |
|-------------|----------------------------|----------------|----------------|-----------------|
| P01.6241.01 | Relay | — | — | 90 V to 260 VAC |
| P01.6241.02 | Relay | Relay | Relay | 90 V to 260 VAC |
| P01.6241.03 | Logic voltage 24 V - 20 mA | — | — | 90 V to 260 VAC |
| P01.6241.04 | Logic voltage 24 V - 20 mA | Relay | Relay | 90 V to 260 VAC |
| P01.6241.05 | Analogue current 4...20 mA | Relay | Relay | 90 V to 260 VAC |



STATOP 4899: 2 x 10,000-count displays, measurement and setpoint. 2 control channels and 2 alarms. Input configurable for J, K, T, E, B, R, S, N type TCs or for Pt 100 Ω.

| Reference | Control output 1 | Control output 2 | Alarm output 1 | Alarm output 2 | Power supply |
|-------------|----------------------------|------------------|----------------|----------------|-----------------|
| P01.6243.01 | Relay | Relay | — | — | 90 V to 260 VAC |
| P01.6243.02 | Relay | Relay | Relay | Relay | 90 V to 260 VAC |
| P01.6243.03 | Analogue current 4...20 mA | Relay | — | — | 90 V to 260 VAC |
| P01.6243.04 | Analogue current 4...20 mA | Relay | Relay | Relay | 90 V to 260 VAC |

Digital controllers 96x96 mm format (1/4 DIN)



STATOP 9620: 2 x 10,000-count displays, measurement and setpoint. 1 control channel and 2 alarms. Input configurable for J, K, T, E, B, R, S, N type TCs or for Pt 100 Ω.

| Reference | Control output | Alarm output 1 | Alarm output 2 | Power supply |
|-------------|----------------------------|----------------|----------------|-----------------|
| P01.6246.01 | Relay | — | — | 90 V to 260 VAC |
| P01.6246.02 | Relay | Relay | Relay | 90 V to 260 VAC |
| P01.6246.03 | Logic voltage 24 V - 20 mA | — | — | 90 V to 260 VAC |
| P01.6246.04 | Logic voltage 24 V - 20 mA | Relay | Relay | 90 V to 260 VAC |
| P01.6246.05 | Analogue current 4...20 mA | Relay | Relay | 90 V to 260 VAC |



STATOP 9630: 2 x 10,000-count displays, measurement and setpoint. 2 control channels and 2 alarms. Input configurable for J, K, T, E, B, R, S, N type TCs or for Pt 100 Ω.

| Reference | Control output 1 | Control output 2 | Alarm output 1 | Alarm output 2 | Power supply |
|-------------|----------------------------|----------------------------|----------------|----------------|-----------------|
| P01.6248.01 | Relay | Relay | — | — | 90 V to 260 VAC |
| P01.6248.02 | Relay | Relay | Relay | Relay | 90 V to 260 VAC |
| P01.6248.03 | Analogue current 4...20 mA | Analogue current 4...20 mA | — | — | 90 V to 260 VAC |
| P01.6248.04 | Analogue current 4...20 mA | Analogue current 4...20 mA | Relay | Relay | 90 V to 260 VAC |

STATOP 9625: 2 x 10,000-count displays, measurement and setpoint. 1 control channel and 2 alarms or 2 control channels and 1 alarm. Input configurable for J, K, T, E, B, R, S, N type TCs or for Pt 100 Ω or analogue, voltages (0...1 V, 0...5 V, 1...5 V, 0...10 V) or currents (0...20 mA, 4...20mA).

| Reference | Control output 1 | Control output 2 | Alarm output 1 | Alarm output 2 | Power supply |
|-------------|-------------------------------|------------------|----------------|----------------|-----------------|
| P01.6261.01 | Relay | — | — | — | 90 V to 260 VAC |
| P01.6261.02 | Relay | — | Relay | Relay | 90 V to 260 VAC |
| P01.6261.03 | Logic voltage 24 V- 20 mA | — | — | — | 90 V to 260 VAC |
| P01.6261.04 | Logic voltage 24 V- 20 mA | — | Relay | Relay | 90 V to 260 VAC |
| P01.6261.05 | Analogue current 4...20 mA | — | Relay | Relay | 90 V to 260 VAC |

STATOP 9635: 2 x 10,000-count displays, measurement and setpoint. 2 control channels and 2 alarms. Input configurable for J, K, T, E, B, R, S, N type TCs or for Pt 100 Ω or analogue, voltages (0...1 V, 0...5 V, 1...5 V, 0...10 V) or currents (0...20 mA, 4...20mA).

| Reference | Control output 1 | Control output 2 | Alarm output 1 | Alarm output 2 | Power supply |
|-------------|-------------------------------|------------------|----------------|----------------|-----------------|
| P01.6263.01 | Relay | Relay | — | — | 90 V to 260 VAC |
| P01.6263.02 | Relay | Relay | Relay | Relay | 90 V to 260 VAC |
| P01.6263.03 | Analogue current 4...20 mA | Relay | Relay | Relay | 90 V to 260 VAC |

Options to be specified when ordering the STATOP 2449, 4850, 9625, & 9635 *

RS485 transmission card - 4/20mA analogue transmission card - 0/20mA analogue transmission card - 0/10 V analogue transmission card

*NB: can not be sold separately



SOLID STATE RELAYS

Full oscillation function with zero cut-out for voltage (On / Off), for control of resistive loads. Driven by STATOP temperature controllers. Mounting on DIN rail or in electrical cabinet.

THYRITOP 1

Single-phase solid state relays with control by DC logic voltage.

| Reference | Nominal voltage | Nominal Intensity | Dimensions | Weight |
|-------------|-----------------|-------------------|----------------------|--------|
| P01.6460.01 | 48 V to 660 V | 25 A | 22.5 x 98 x 102.8 mm | 250 g |
| P01.6460.02 | 48 V to 660 V | 45 A | 45 x 98 x 102.8 mm | 490 g |

THYRITOP 20

Single-phase solid state relays with control by logic voltage, dry contact or digital via bus modules. Equipped with a high-speed fuse. Optional load break detection adjusted with relay alarm. Digital communication via Profibus and Modbus modules.

| Reference Un = 230 V | Reference Un = 400 V | Nominal Intensity | Alarm | Dimensions L, H, P | Weight |
|-------------------------|-------------------------|-------------------|-------|-----------------------|--------|
| P01646521 | P01646530 | 8 A | — | 40 x 121 x 127 mm | 0.6 kg |
| P01646522 | P01646531 | 16 A | — | 45 x 121 x 127 mm | 0.7 kg |
| P01646523 | P01646532 | 30 A | — | 45 x 121 x 127 mm | 0.7 kg |
| P01646524 | P01646533 | 45 A | — | 52 x 190 x 182 mm | 1.7 kg |
| P01646525 | P01646534 | 60 A | — | 52 x 190 x 182 mm | 1.7 kg |
| P01646526 | P01646535 | 100 A | — | 75 x 190 x 190 mm | 1.9 kg |
| P01646527 | P01646536 | 130 A | — | 125 x 320 x 237 mm | 4 kg |
| P01646528 | P01646537 | 170 A | — | 125 x 320 x 237 mm | 4 kg |
| P01646529 | P01646538 | 280 A | — | 125 x 320 x 237 mm | 5 kg |
| P01646548 | P01646557 | 8 A | Relay | 40 x 121 x 127 mm | 0.6 kg |
| P01646549 | P01646558 | 16 A | Relay | 45 x 121 x 127 mm | 0.7 kg |
| P01646550 | P01646559 | 30 A | Relay | 45 x 121 x 127 mm | 0.7 kg |
| P01646551 | P01646560 | 45 A | Relay | 52 x 190 x 182 mm | 1.7 kg |
| P01646552 | P01646561 | 60 A | Relay | 52 x 190 x 182 mm | 1.7 kg |
| P01646553 | P01646562 | 100 A | Relay | 75 x 190 x 190 mm | 1.9 kg |
| P01646554 | P01646563 | 130 A | Relay | 125 x 320 x 237 mm | 4 kg |
| P01646555 | P01646564 | 170 A | Relay | 125 x 320 x 237 mm | 4 kg |
| P01646556 | P01646565 | 280 A | Relay | 125 x 320 x 237 mm | 5 kg |

Accessories and options

| Reference | Designation |
|-----------|---|
| P01646951 | Adapter n° 1 for 35 mm symmetric DIN rail |
| P01646952 | Profibus DP module |
| P01646953 | Modbus RTU module |
| P01646931 | THYROTOOL software |



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