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JUMO heatTHERM-AT and JUMO heatTHERM-DR

Type 603070, Surface-Mounted or Room Thermostat Versions

Special features

- **PUSH IN**-connection technology - **reduced installation time by 50 %**
- Stable switching point position due to ambient temperature compensation (standard)
- Max. switching capacity 16 A, 230 V
- Tested according to DIN EN 14597
- Operating life at least 250,000 switching cycles for TR and TW
- Switching point deviation during the entire operating life of up to $\pm 5 \%$
- Protection type max. IP54
- UL approval (extra code 061)

Brief description

High application flexibility and the latest connection technology are the essential equipment features of this new thermostat series.

The thermostat case is suitable for all common installation types such as wall mounting, immersion sleeve, and contact fastening. It can be used universally and reduces the variant range because different mounting types must no longer be taken into account.

The JUMO heatTHERM-DR (type 7+8) type is a specific variation with a special housing bottom section for DIN rail or wall mounting. As a result, easy mounting on mounting rails TH35 according to DIN EN 60715 (e.g. in control cabinets) is possible. This variant considerably reduces the mounting time. The flue gas automatic reset temperature limiter JUMO heatTHERM-AT locks the gas/oil vessel that is connected in parallel with the wood vessel to a chimney.

For these international innovative surface-mounted thermostats with "Push-In[®]" terminal technology, the connection wires are only inserted into the terminal point up to the stop - that's it! No tool is required for connecting the wire or strand with a ferrule and the wiring becomes safer. In this manner, the costs and time required for connection are considerably reduced compared to the conventional screw terminal.

The "Push-In[®]" terminal technology allows direct switching of loads up to 16 A at 230 V AC. The installation costs can be reduced further because a load contactor is no longer required.

Available are temperature controllers (TR), temperature monitors (TW), safety temperature monitors (STW), safety temperature limiters (STB) as single or double thermostats, and flue gas temperature monitors (ATW).

Approvals according to DIN EN 14597, DGRL, and UL indicate the high quality standards for this product series.



Type 603070/0170 (TR/STB)



Type 603070/0001 (TR)



Type 603070/0002 (TW)



Type 603070/0002 (TW)

Approvals/approval marks (see "Technical Data")



Design type 5+6*

Design type 7+8*

* Only with extra code 061

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Technical data

Switching function

| | |
|---|---|
| Temperature controller TR / temperature monitor TW | <p>If the temperature on the temperature probe exceeds the setpoint value, the microswitch is activated by the transmission mechanics and the electrical circuit is opened or closed.</p> <p>If the temperature falls below the selected setpoint value (by the amount of the switching differential), the microswitch is reset to its initial position.</p> |
| Safety temperature monitor STW | <p>If the temperature on the temperature probe exceeds the setpoint value, the snap-action switch is activated and the electrical circuit is opened or closed. If the temperature falls below the selected setpoint value (by the amount of the switching differential), the snap-action switch is reset to its initial position.</p> <p>The electrical circuit 1-2 opens when the probe of STW (STB) and STB cools down to the negative temperature range, but it closes again automatically if the temperature rises.</p> <p>If the measuring system is destroyed (i.e. if the expansion fluid emerges) the pressure in the diaphragm drops and permanently opens the electrical circuit.</p> |
| Safety temperature limiter STB | <p>If the temperature on the temperature probe exceeds the switching point, the snap-action switch is activated, the electrical circuit is opened or closed, and the snap-action switch is mechanically locked.</p> <p>The unlocking difference depends on the control range. Exact values are available from the respective types. They are also available upon request. If the temperature falls below the selected setpoint value (by the amount of the unlocking difference) then the snap-action switch can be manually unlocked again.</p> <p>The electrical circuit 1-2 opens when the probe of STW (STB) and STB cools down to the negative temperature range, but it closes again automatically if the temperature rises.</p> <p>If the measuring system is destroyed (i.e. if the expansion fluid emerges) the pressure in the diaphragm drops and permanently opens the electrical circuit. Unlocking is no longer possible.</p> |

Temperature compensation

When the ambient temperature on the switching head and the capillary deviates — from the calibration ambient temperature of +22 °C — a switching point offset occurs. This switching point offset is reduced to a minimum due to the temperature compensation.

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Technical data

Case

| | Type 5 + 6 | Type 7 + 8 |
|----------------------------|--|---|
| Case | Case bottom section: Color: cobalt-blue RAL 5013 (for TZ 061 light-gray, RAL 7035) Case lid: ABS with inspection glass (PMMA) Color: cobalt-blue RAL 5013 (for TZ 061 light-gray, RAL 7035) | PA (reinforced) Color: Silver-gray RAL 7001 (for TZ 061 black) |
| Setpoint adjustment | TR Switching point can be adjusted externally with the rotary knob. TW, STW, STB, ATW Switching point can be adjusted with a screwdriver once the case lid has been removed. The set switching point can be checked through the inspection glass. | - - Switching point can be adjusted with a screwdriver. |
| Protection type | IP40 or IP54 (for TZ 402) according to EN 60 529 | IP20 according to EN 60 529 |
| Cable inlet | Cable gland M20 x 1.5, for cable-Ø 6-12 mm | Cable connection directly on PUSH IN terminals |
| Capillary | Ø 1.25 mm - min. bending radius of the capillary 5 mm - material: copper (Cu) or stainless steel (CrNi, 1.4301) | |
| Case fastening | Pipe mounting with clamping belt for pipe diameter 15-100 mm, thermowell mounting, wall mounting | Wall mounting, DIN rail installation TH35 according to DIN EN 60715 |
| Weight | Approx. 0.2 kg | |

Electrical data

| | | |
|---------------------------------|--|---|
| Electric contact | Snap-action switch with single-pole changeover contact | |
| Switching capacity | TR / TW / STW / ATW On the N/C contact (contact deck 1-2): AC 230 V +10 %, 16 (2.5) A, cos φ = 1 (0.6), DC 230 V +10 %, 0.25 A On the N/O contact (contact deck 1-4): AC 230 V +10 %, 6.3 (2.5) A, cos φ = 1 (0.6), DC 230 V +10 %, 0.25 A | STB On the N/C contact (contact deck 1-2): AC 230 V +10 %, 16 (2.5) A, cos φ = 1 (0.6), DC 230 V +10 %, 0.25 A On the signal contact (contact deck 1-4): AC 230 V +10 %, 2 (0.4) A, cos φ = 1 (0.6), DC 230 V +10 %, 0.25 A |
| Electrical connection | PUSH IN contact (plug-type terminal) "Push-In [®] " terminal technology: patented connection technology by Weidmüller GmbH & Co. KG, Detmold, Germany | |
| Connection cross section | 0.75 to 2.5 mm ² fine wired (single-wire, fine wired with ferrule) | |
| Switching reliability | To ensure the greatest possible switching reliability, we recommend a minimum load of: AC / DC = 24 V, 100 mA for silver contacts AC / DC = 10 V, 5 mA for gold-plated contacts (TZ 702) | |

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Operating data

| | | | | | |
|---------------------------------|--|--|---|---|---|
| Switching point accuracy | TR, TW | STW, STB with a setting range of: | | | |
| | Switching differential 2.5% | In the "first half" (+20 °C to +50 °C) | In the "second half" (+50 °C to +80 °C) | In the "first half" (+70 °C to +100 °C) | In the "second half" (+100 °C to +130 °C) |
| | In the upper third of the scale ± 3 %, at scale beginning ± 6 % | +0/-8 K | +0/-5 K | +0/-12 K | +0/-5 K |
| Temperature compensation | When the ambient temperature on the switching head and the capillary deviates — from the calibration ambient temperature of +22 °C — a switching point offset of approx. -0.1 K/K occurs (switching point change referring to the ambient temperature change, measured at limit value +120 °C permanently set and capillary length 2,000 mm). This switching point offset is reduced to a minimum due to the standard temperature compensation. | | | | |
| Limit value temperatures | For transport and storage: -30 °C to (see maximum temperatures during operation) | | | | |
| | During use: 0 °C to +80 °C, for TZ 061 UL approval max. +65 °C (type 7 max. 55 °C; type 6+8 max. +50 °C) | | | | |
| | For pipe mounting: max. pipe temperature +120 °C | | | | |
| Rated position | According to DIN 16257, rated position 0 to rated position 90 (different rated positions upon request) | | | | |

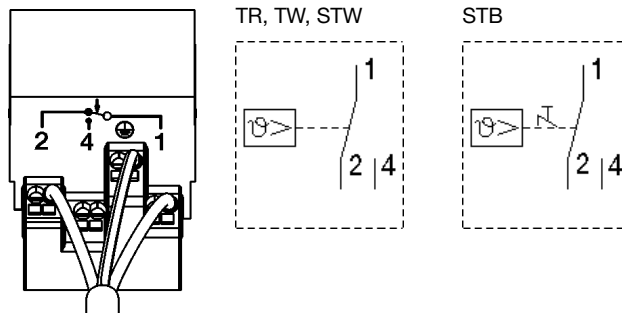
Approvals/approval marks

| Approval marks | Inspection authority | Certificates/certification number | Inspection basis | Valid for |
|------------------|--|--|--|---|
| DIN | DIN CERTCO | TR1191, TW1192, STW(STB)1193, STB1194, ATW1218 | DIN EN 14597 | JUMO heatTHERM-AT/-DR according to type |
| DIN | TÜV Süd (German Technical Inspection Agency) | DIN EN ISO 13849-1 | B _{10d} = 250,000 ^a | JUMO heatTHERM-AT/-DR |
| PED | TÜV Süd | Z-IS-TAF-MUC-18-05-2652099-02162623 | 2014/68/EU | JUMO heatTHERM (STW(STB)/STB) |
| UL | UL Germany | E 66358 | UL 873 | JUMO heatTHERM-AT/-DR |
| EAC ^b | Gost Norm AG | TC RU C-DE.AB98.B.00348 | Technical rules of the customs union Russia/Belarus/Kazakhstan | JUMO heatTHERM-AT/-DR |

^a For further details see: Safety manual JUMO heatTHERM (-AT), (-DR) 602031, 603070. Contact rating check conducted at 16 A, 230 V, resistive load.

^b Russian documentation upon request

Wiring diagrams



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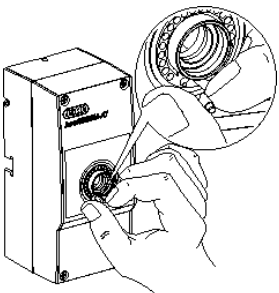
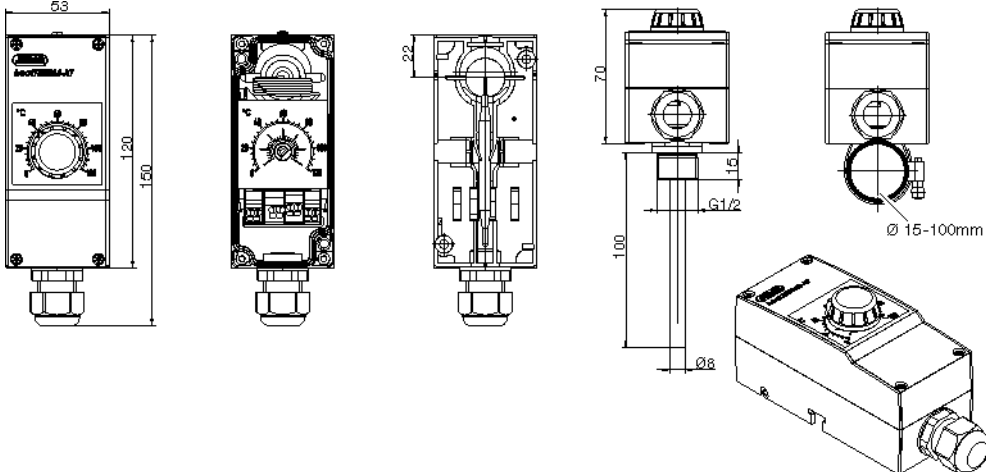
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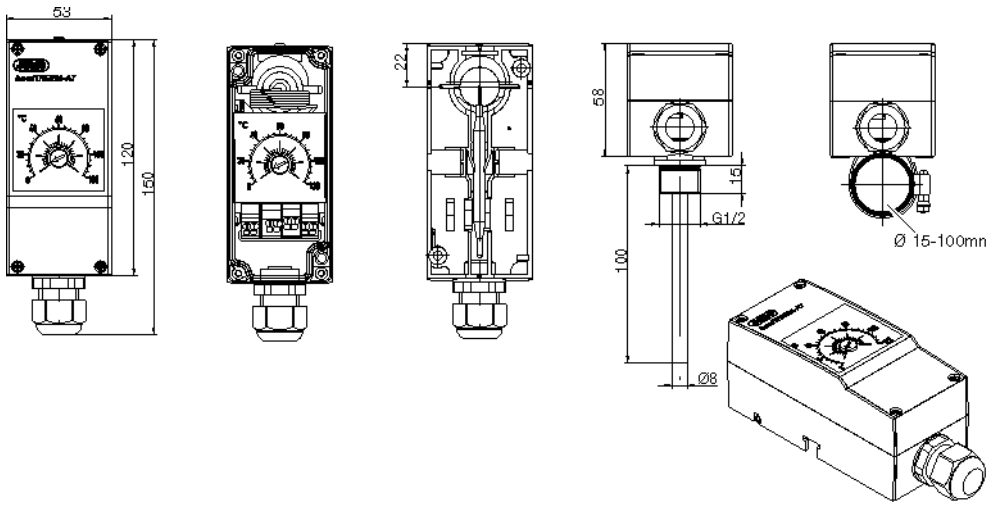
Devices in stock: JUMO heatTHERM-AT

Temperature controller TR, type 5

| Type 603070/0001^a <ul style="list-style-type: none"> Protection type IP54 Compensation of the ambient temperature Individual limitation of the control range  | |  | | | | |
|--|-------------------|--|--------------|--------------------|------------------------|---|
| Part no. | Type | Control range °C | Capillary mm | Probe-Ø (d) × L mm | Switching differential | Process connection |
| 60003185 | JUMO | 0 to +120 | 2000 | 6 × 87 | Approx. 3 K | With internal capillary and contact probe |
| 60003186 | heatTHERM-AT/0001 | | | | | Thermowell U 4, brass nickel-plated |

^a Further design versions (control range, switching differential, process connection) upon request - minimum order quantity 100 pieces. Thermowells page 15.

Temperature monitor TW

| Type 603070/0002^a <ul style="list-style-type: none"> Protection type IP54 Compensation of the ambient temperature Switching value check through inspection window in the case lid UL approval (extra code 061) | |  | | | | |
|---|-------------------------------|--|--------------|--------------------|------------------------|---|
| Part no. | Type | Control range °C | Capillary mm | Probe-Ø (d) × L mm | Switching differential | Process connection |
| 60003187 | JUMO heatTHERM-AT/ 0002 | 0 to +120 | 2000 | 6 × 87 | Approx. 3 K | With internal capillary and contact probe |
| 60003441 ^b | | | | | | Thermowell U 4, brass nickel-plated |
| 60003188 | | 0 to +200 | | 6 × 78 | Approx. 5 K | With internal capillary and contact probe |
| 60003440 ^b | | | | | | Thermowell U 4, brass nickel-plated |

^a Further design versions (control range, switching differential, process connection) upon request - minimum order quantity 100 pieces. Thermowells page 15.

^b UL approval (extra code 061) page 14.

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Devices in stock: JUMO heatTHERM-AT

Safety temperature monitor STW, type 5

| Type 603070/0020^a <ul style="list-style-type: none"> Protection type IP54 Switching value check through inspection window in the case lid Compensation of the ambient temperature Capillary break protection | | | | | | |
|--|-------------------|------------------|--------------|--------------------|------------------------|---|
| Part no. | Type | Control range °C | Capillary mm | Probe-∅ (d) × L mm | Switching differential | Process connection |
| 60003229 | JUMO | +20 to +80 | 2000 | 6 x 66 | Approx. 10 K | With internal capillary and contact probe |
| 60003189 | heatTHERM-AT/0020 | +70 to +130 | | 6 x 66 | | Thermowell U 4, brass nickel-plated |

^a Further design versions (control range, switching differential, process connection) upon request - minimum order quantity 100 pieces. Thermowells page 15.

Safety temperature limiter STB, type 5

| Type 603070/0070^a <ul style="list-style-type: none"> Protection type IP54 Switching value check through inspection window in the case lid External acknowledgement of the switching point is possible Compensation of the ambient temperature Capillary break protection UL approval (extra code 061) | | | | | | |
|---|-------------------------------|------------------|--------------|--------------------|----------------------|---|
| Part no. | Type | Control range °C | Capillary mm | Probe-∅ (d) × L mm | Unlocking difference | Process connection |
| 60003230 | JUMO heatTHERM-AT/ 0070 | +70 to +130 | 2000 | 6 x 66 | Approx. 10 K | With internal capillary and contact probe |
| 60003190 | | | | | | |
| 60003442 ^b | | +50 to +300 | | 6 x 85 | Approx. 25 K | With internal capillary and contact probe |
| 60003443 ^b | +20 to +150 | 6 x 66 | Approx. 15 K | | | |

^a Further design versions (control range, switching differential, process connection) upon request - minimum order quantity 100 pieces. Thermowells page 15.

^b UL approval (extra code 061) page 14.

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Devices in stock: JUMO heatTHERM-AT

Room thermostat temperature controller TR, type 6

Type 603070/0001^a

- Protection type IP54
- Wall mounting
- Individual limitation of the control range

| Part no. | Type | Control range °C | Capillary mm | Probe-Ø (d) x L mm | Switching differential | Process connection |
|----------|-------------------|------------------|--------------|--------------------|------------------------|--------------------|
| 60003191 | JUMO | -10 to +40 | -- | -- | 1.5 - 2 K | Spiral probe |
| 60003192 | heatTHERM-AT/0001 | 0 to +50 | | | | |

^a Further design versions (control range, switching differential, process connection) upon request - minimum order quantity 100 pieces. Thermowells page 15.

Room thermostat temperature limiter TW, type 6

Type 603070/0002^a

- Protection type IP54
- Wall mounting
- Switching value check through inspection window in the case lid

| Part no. | Type | Control range °C | Capillary mm | Probe-Ø (d) x L mm | Switching differential | Process connection |
|----------|-------------------|------------------|--------------|--------------------|------------------------|--------------------|
| 60003193 | JUMO | -10 to +40 | -- | -- | 1.5 - 2 K | Spiral probe |
| 60003194 | heatTHERM-AT/0002 | 0 to +50 | | | | |

^a Further design versions (control range, switching differential, process connection) upon request - minimum order quantity 100 pieces. Thermowells page 15.

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Devices in stock: JUMO heatTHERM-AT

Temperature controller / safety temperature monitor TR/STW, type 5

| Type 603070/0120^a <ul style="list-style-type: none"> Protection type IP54 Switching value check through inspection window in the case lid Compensation of the ambient temperature Capillary break protection for STW | | | | | | |
|--|------------------------|------------------|--------------|--------------------|------------------------|---|
| Part no. | Type | Control range °C | Capillary mm | Probe-Ø (d) × L mm | Switching differential | Process connection |
| 60003195 | JUMO heatTHERM-AT/0120 | TR: 0 to +120 | 2000 | 6 × 87 | Approx. 3 K | With internal capillary and contact probe |
| | | STW: 70 to +130 | | 6 × 66 | Approx. 10 K | |
| 60003231 | | TR: 0 to +120 | | 6 × 87 | Approx. 3 K | Thermowell; brass nickel-plated |
| | | STW: 70 to +130 | | 6 × 66 | Approx. 10 K | |

^a Further design versions (control range, switching differential, process connection) upon request - minimum order quantity 100 pieces. Thermowells page 15.

Temperature controller / safety temperature limiter TR/STB, type 5

| Type 603070/0170^a <ul style="list-style-type: none"> Protection type IP54 Switching value check through inspection window in the case lid Compensation of the ambient temperature Capillary break protection for STW | | | | | | | |
|--|------------------------|------------------|--------------|--------------------|--|---|---------------------------------|
| Part no. | Type | Control range °C | Capillary mm | Probe-Ø (d) × L mm | Switching differential/ unlocking difference | Process connection | |
| 60003196 | JUMO heatTHERM-AT/0170 | TR: 0 to +120 | 2000 | 6 × 87 | Approx. 3 K | With internal capillary and contact probe | |
| | | STB: 70 to +130 | | 6 × 66 | Approx. 10 K | | |
| 60003232 | | | | TR: 0 to +120 | 6 × 87 | Approx. 3 K | Thermowell; brass nickel-plated |
| | | | | STB: 70 to +130 | 6 × 66 | Approx. 10 K | |

^a Further design versions (control range, switching differential, process connection) upon request - minimum order quantity 100 pieces. Thermowells page 15.

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Room thermostat temperature monitor / temperature monitor TW/TW, type 6

| Type 603070/0202^a <ul style="list-style-type: none"> Protection type IP54 Wall mounting Switching value control through inspection window in the case lid | | | | | | |
|--|-------------------|------------------|--------------|--------------------|------------------------|--------------------|
| Part no. | Type | Control range °C | Capillary mm | Probe-Ø (d) x L mm | Switching differential | Process connection |
| 60003212 | JUMO | -10 to +40 | -- | -- | 1.5 - 2 K | Spiral probe |
| 60003213 | heatTHERM-AT/0202 | 0 to +50 | | | | |

^a Further design versions (control range, switching differential, process connection) upon request - minimum order quantity 100 pieces. Thermowells page 15.

Flue gas temperature monitor with mounting sleeve, design 5

| Type 603070/0020^a <ul style="list-style-type: none"> Switching value check through inspection window in the case lid Max. allowable probe temperature +600 °C Approval as ATW with capillary break protection according to DIN EN 14597 Time constant $t_{0.632} \leq 45$ sec. in flue gas | | | | | | |
|---|------------------------|------------------|--------------|--------------------|------------------------|---|
| Part no. | Type | Control range °C | Capillary mm | Probe-Ø (d) x L mm | Switching differential | Process connection |
| 60003390 | JUMO heatTHERM-AT/0020 | +20 to +280 | -- | 6 x 150 mm | Approx. 35 K | Intermediate piece with mounting flange |

^a Further design versions (control range, switching differential, process connection) upon request - minimum order quantity 100 pieces. Thermowells page 15.

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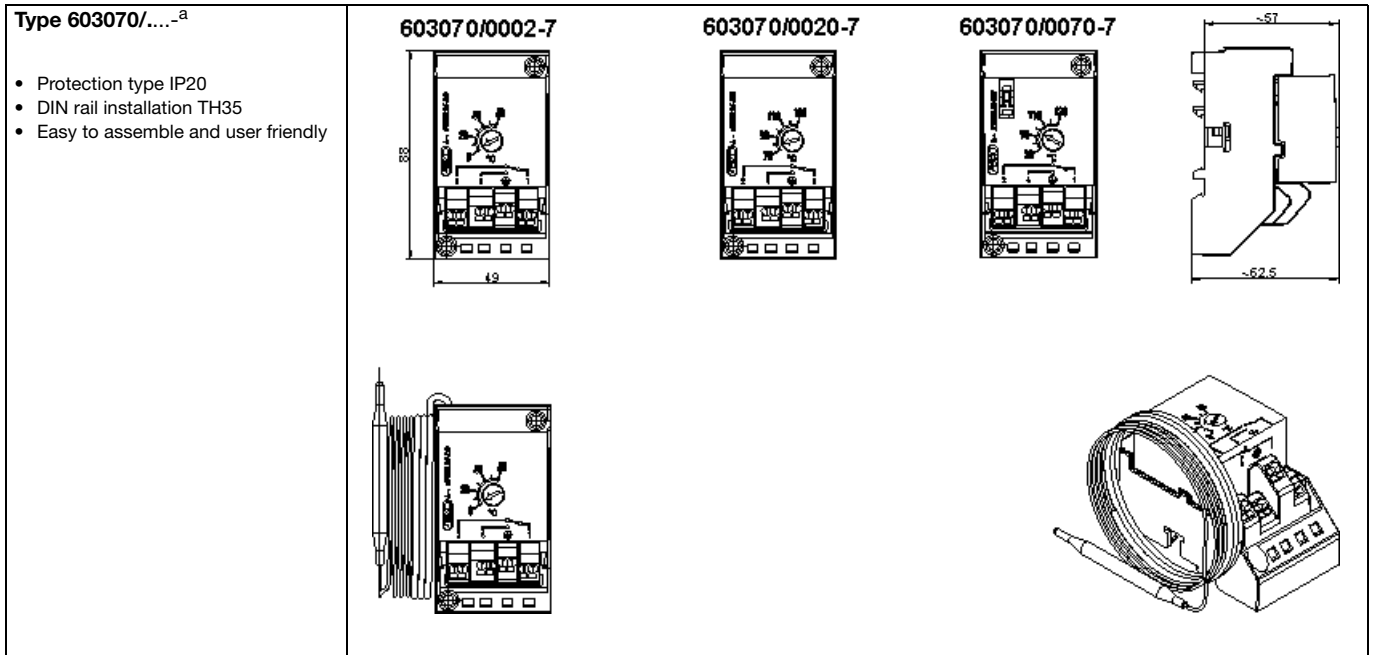
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Devices in stock: JUMO heatTHERM-DR

Thermostat for DIN rail installation TH35, according to DIN EN 60715, type 7



| Part no. | Type | Control range °C | Capillary mm | Probe-∅ (d) × L mm | Switching differential | Process connection |
|---------------------------------------|-------------|------------------|--------------|--------------------|--|----------------------------------|
| Temperature monitor TW | | | | | | |
| 60003283 | 603070/0002 | 0 to +120 | 2000 | 6 × 87 | Approx. 3K | With capillary and contact probe |
| 60003284 | 603070/0002 | 0 to +200 | | 6 × 78 | Approx. 5 K | |
| 60003285 | 603070/0002 | +50 to +300 | | 6 × 66 | Approx. 6 K | |
| Safety temperature monitor STW | | | | | | |
| 60003286 | 603070/0020 | +70 to +130 | 2000 | 6 × 66 | Approx. 10 K | With capillary and contact probe |
| Safety temperature limiter STB | | | | | Unlocking difference | |
| 60003287 | 603070/0070 | +70 to +130 | 2000 | 6 × 66 | Approx. 10K | With capillary and contact probe |
| 60003299 | 603070/0070 | +20 to +150 | | 6 × 60 | In the upper third approx. 15 K At the scale beginning approx. 30 K | |
| 60003300 | 603070/0070 | +50 to +300 | | 6 × 85 | In the upper third approx. 25 K At the scale beginning approx. 45 K | |

^a Further design versions (control range, switching differential, process connection) upon request - minimum order quantity 100 pieces. Thermowells page 15.

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JUMO heatTHERM-DR

Thermostat for DIN rail installation TH35, according to DIN EN 60715, type 8

| | | | | |
|--|-----------------------------|-----------------------------|-----------------------------|--|
| <p>Type 603070/0002-8^a</p> <ul style="list-style-type: none"> • Protection type IP20 • DIN rail installation TH35 • Easy to assemble and user friendly <p>Fastening hole (1) = Ø 4.5 mm</p> | <p>603070/0002-8</p> | <p>603070/0020-8</p> | <p>603070/0070-8</p> | |
|--|-----------------------------|-----------------------------|-----------------------------|--|

^a Upon request - minimum order quantity 100 pieces.

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Order details

Surface-mounted thermostat JUMO heatTHERM, type 603070

Minimum purchase order 100 pieces

| Order code | (1) Basic type |
|--|---|
| 603070 | JUMO heatTHERM with single-pole snap-action switch |
| (2) Basic type extension | |
| 0001 | Temperature controller (TR) |
| 0002 | Temperature monitor (TW) |
| 0020 | Safety temperature monitor (STW) or flue gas temperature monitor (ATW) |
| 0070 | Safety temperature limiter (STB) |
| 0120 | Temperature controller / safety temperature monitor (TR/STW) |
| 0170 | Temperature controller / safety temperature limiter (TR/STB) |
| 0202 | Temperature monitor / temperature monitor (TW/TW) |
| (3) Type | |
| 5 |  Surface-mounted thermostat, with thermowell, flange sleeve, capillary, or as contact probe |
| 6 |  surface-mounted room thermostat, with spiral probe |
| 7 |  DIN rail thermostat, with capillary |
| 8 |  DIN-rail room thermostat, with spiral probe |
| (4) Control range / limit value range 1 [°C] | |
| 016 | -10 to +40 TR, TW |
| 021 | 0 to +50 TR, TW |
| 026 | 0 to +120 TR, TW |
| 028 | 0 to +200 TR, TW, STB |
| 040 | +20 to +80 STW |
| 043 | +20 to +150 TR, TW, STB |
| 064 | +50 to +300 TR, TW, STB With thermowell, select process connection 76 |
| 671 | +70 to +130 STW, STB |
| 384 | +20 to +280 ATW Only with process connection 80 |
| Further control ranges / limit value ranges up to 350 °C upon request (up to +500 °C without approval) | |
| (5) Control range / limit value range 2 [°C] | |
| 000 | Single thermostat |
| 016 | -10 to +40 TR, TW Adjustable |
| 021 | 0 to +50 TR, TW Adjustable |
| 671 | +70 to +130 STW, STB Adjustable |
| Further control ranges / limit value ranges up to 350 °C upon request (up to +500 °C without approval) | |
| (6) Limit value 1 STW/STB | |
| 000 | for adjustable control range |
| 095 | 95 °C |
| 100 | 100 °C |
| 110 | 110 °C |

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Order details

Surface-mounted thermostat JUMO heatTHERM, type 603070

| Order code | (7) Limit value 2 STW/STB |
|------------|------------------------------|
| 000 | for adjustable control range |
| 095 | 95 °C |
| 100 | 100 °C |
| 110 | 110 °C |

| (8) Switching differential 1 | |
|------------------------------|--------------------------------------|
| 00 | Without switching differential (STB) |
| 25 | 2.5 % of the scale range |
| 70 | 7 % of the scale range |



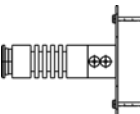

| (9) Switching differential 2 | |
|------------------------------|--------------------------------------|
| 00 | Without switching differential (STB) |
| 25 | 2.5 % of the scale range |
| 70 | 7 % of the scale range |

| (10) Capillary length 1 | |
|-------------------------|--|
| 0 | 0 mm only for room thermostat |
| 2000 | 2000 mm Special length upon request |

| (11) Capillary length 2 | |
|-------------------------|--|
| 0 | 0 mm only for room thermostat |
| 2000 | 2000 mm Special length upon request |

| (12) Material of capillary 1 | |
|------------------------------|----------------------|
| 00 | Without capillary |
| 20 | CrNi Stainless steel |
| 40 | Cu Copper |

| (13) Material of capillary 2 | |
|------------------------------|-------------------------------------|
| 00 | Without capillary Single thermostat |
| 20 | CrNi Stainless steel |
| 40 | Cu Copper |

| (14) Process connection | |
|-------------------------|---|
| 10 | Plain cylindrical probe / contact probe  |
| 15 | Spiral probe  |
| 80 ^a | Intermediate piece with mounting flange  |
| 76 ^b | Intermediate piece  |

^a Only control ranges +20 to +280 °C (ATW) selectable.

^b As of a control range value larger than 150 °C, select process connection 76 for mounting with thermowell. Select thermowell according to data sheet 606710, screw-in sleeve "20" with G1/2 thread made out of stainless steel (CrNi).

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Order details

Surface-mounted thermostat JUMO heatTHERM, type 603070

| Order code | (15) | Diameter 1 |
|---|------|--|
| 6 | | ∅ 6 mm |
| 17 | | ∅ 17 mm Spiral probe for room thermostat (with process connection 15) |
| (16) Diameter 2 | | |
| 00 | | Single thermostat |
| 6 | | ∅ 6 mm |
| 17 | | ∅ 17 mm Spiral probe for room thermostat (with process connection 15) |
| (17) Probe material 1 | | |
| 20 | CrNi | Stainless steel |
| 40 | Cu | Copper |
| (18) Probe material 2 | | |
| 00 | | Single thermostat |
| 20 | CrNi | Stainless steel |
| 40 | Cu | Copper |
| (19) Capillary insulation | | |
| 00 | | No protective tube |
| 13 | | PVC tube, black |
| (20) Insulation length (from case) | | |
| 0 | | No protective hose |
| 460 | | 460 mm |
| | | Special length upon request |
| (21) Extra codes^a | | |
| 000 | | Without extra codes |
| 061 | | With UL approval |
| 402 | | Case protection type IP54 |
| 702 | | Snap-action switch, gold-plated |
| 749 | | Setting range with 250 angular degrees (only STB/STW) |
| 758 | | Tightening band for contact probe |

^a List extra codes in sequence, separated by commas.

Order code

(1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) (13) (14) (15) (16) (17) (18) (19) (20) (21)
 603070 / [] - [] / [] , ...

Order example

603070 / 0001 - 5 - 021 - 671 - 000 - 000 - 70 - 00 - 2000 - 00 - 40 - 00 - 10 - 6 - 00 - 20 - 20 - 00 - 0 / 000^a , ...

^a List extra codes in sequence, separated by commas.

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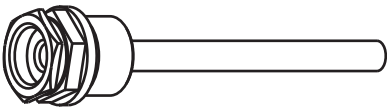

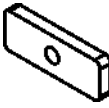

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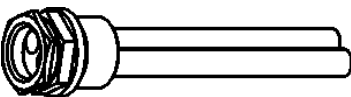

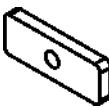

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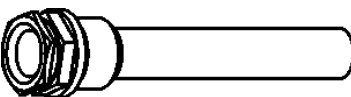


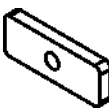




Accessories

(according to product group 606710)

| Thermowell set | Thermowell with sealing collar | | | | Clamp for strain relief | Plate for surface-mounted thermostat | Screw for surface-mounted thermostat |
|--------------------------------|---|--------------|------------|------------------------------|---|--|---|
| Suitable for 1 probe |  | | | |  |  |  |
| Part no. | Type | Abbreviation | Connection | ∅ sleeve × fitting length EL | Material | Pressure loading capacity at +150 °C | |
| 60003177 | Thermowell for JUMO heatTHERM, 1 probe | 28 | G 1/2 | 8 × 100 mm | Brass/nickel-plated | 48 bar | |
| 60003203 | | | | 8 × 150 mm | | | |
| 60003171 | | | | 8 × 200 mm | | | |
| 60003172 | | | | 8 × 100 mm | Stainless steel / 1.4571 | | 88 bar |
| 60003205 | | | | 8 × 150 mm | | | |
| 60003173 | | | | 8 × 200 mm | | | |

| Thermowell set | Thermowell with sealing collar | | | | Clamp for strain relief | Plate for surface-mounted thermostat | Screw for surface-mounted thermostat |
|---------------------------------|---|--------------|------------|------------------------------|---|--|---|
| Suitable for 2 probes |  | | | |  |  |  |
| Part no. | Type | Abbreviation | Connection | ∅ sleeve × fitting length EL | Material | Pressure loading capacity at +150 °C | |
| 60003178 | Thermowell for JUMO heatTHERM, 2 probes | 29 | G 1/2 | 2 × 8 × 100 mm | Brass / nickel-plated | 48 bar | |
| 60003204 | | | | 2 × 8 × 150 mm | | | |
| 60003174 | | | | 2 × 8 × 200 mm | | | |

| Thermowell set | Thermowell with sealing collar | | | | Pressure spring | Clamp for strain relief | Plate for surface-mounted thermostat | Screw for surface-mounted thermostat |
|---------------------------------|---|--------------|------------|------------------------------|---|---|--|---|
| Suitable for 2 probes |  | | | |  |  |  |  |
| Part no. | Type | Abbreviation | Connection | ∅ sleeve × fitting length EL | Material | Pressure loading capacity at +150 °C | | |
| 60003175 | Thermowell for JUMO heatTHERM, 2 probes | 49 | G 1/2 | 15 × 100 mm | Stainless steel / 1.4571 | 48 bar | | |
| 60003206 | | | | 15 × 150 mm | | | | |
| 60003176 | | | | 15 × 200 mm | | | | |

| | | | | | | |
|---|---|--|--|--|-----------------------|--|
| Adapter piece for thermowell^a | | | | | Material | |
| Part no. |  | | | | Steel / nickel-plated | |
| 00507273 | | | | | | |

^a necessary for thermowell with process connection "20" or "23".