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# Exhaust gas temperature monitor STM-RW-2

## Areas of application

- Wood stoves
- Powder coatings
- Smokehouses, roasting plants

## Special features

- Integrated microswitch
- Contact reliability
- Die-cast aluminum housing

## Description

The device is an exhaust gas temperature monitor and is used to monitor the exhaust gas temperature of solid fuel boilers in bivalent operation with oil-fired boilers. It is also used to interlock ventilation systems that cause negative pressure in combination with tiled stoves and fireplaces.



Type 601540

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## Approval marks and certificates



Certificates for approved device versions are available for download on the manufacturer's website.

Russian documentation upon request.

## Technical data

### Electrical data

|                                        |                                                                             |
|----------------------------------------|-----------------------------------------------------------------------------|
| Switching element                      | Microswitch with changeover contact                                         |
| Maximum permissible switching capacity | AC 230 V +10 %, 10(2) A, $\cos \varphi = 1$ (0.6)<br>DC 230 V +10 %, 0.25 A |
| Recommended minimum load               | AC/DC 24 V, 20 mA                                                           |
| Rated surge voltage                    | 2500 V (via switching contacts 400 V)                                       |
| Overvoltage category                   | II                                                                          |
| Limit value range                      | 40 to 120 °C (per default 100 °C)<br>20 to 400 °C (per default 120 °C)      |

### Environmental influences

|                                                                                                                                                       |                                                      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|
| Switching differential<br>40 to 120 °C<br>20 to 400 °C                                                                                                | 10 to 18 K<br>10 to 22 K                             |
| Switching point accuracy referred to switch off point<br>40 to 120 °C<br>Scale beginning<br>Scale end<br>20 to 400 °C<br>Scale beginning<br>Scale end | +0/-10 K<br>+0/-10 K<br><br>+0/-15 K<br>+0/-20 K     |
| Time constant<br>Exhaust gas                                                                                                                          | ≤ 45 sec.                                            |
| Average ambient temperature influence<br>Switching point displacement, referred to the deviation from 22 °C                                           | ~ 0.07 K/K                                           |
| Admissible ambient temperature<br>At the sensor<br>At the switch head                                                                                 | Max. 700 °C<br>Max. 80 °C, mind. -50 °C              |
| Admissible storage temperature                                                                                                                        | Max. 80 °C, mind. -50 °C                             |
| Setpoint value adjustment                                                                                                                             | After removing the housing cover via the inner scale |
| Rated position (NL)                                                                                                                                   | DIN 16257, NL 0 to NL 90 (other NL upon request)     |

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## Mechanical features

### Case

|                 |                                   |
|-----------------|-----------------------------------|
| Material        | Die-cast aluminum                 |
| Surface         | Impact-resistant textured coating |
| Lid             | RAL 7032                          |
| Lower section   | RAL 7015                          |
| Cable inlet     | Self-sealing grommet M20 × 1,5    |
| Protection type | DIN EN 60529, IP54                |
| Weight          | Approx. 800 g                     |

### Process connection

|                 |                                                 |
|-----------------|-------------------------------------------------|
| Material        | Steel                                           |
| Connection type | „DZ“ G 1/2 (fixed hexagon with external thread) |

### Immersion tube

|            |                |
|------------|----------------|
| Material   | Steel          |
| Dimensions | 15 mm × 150 mm |

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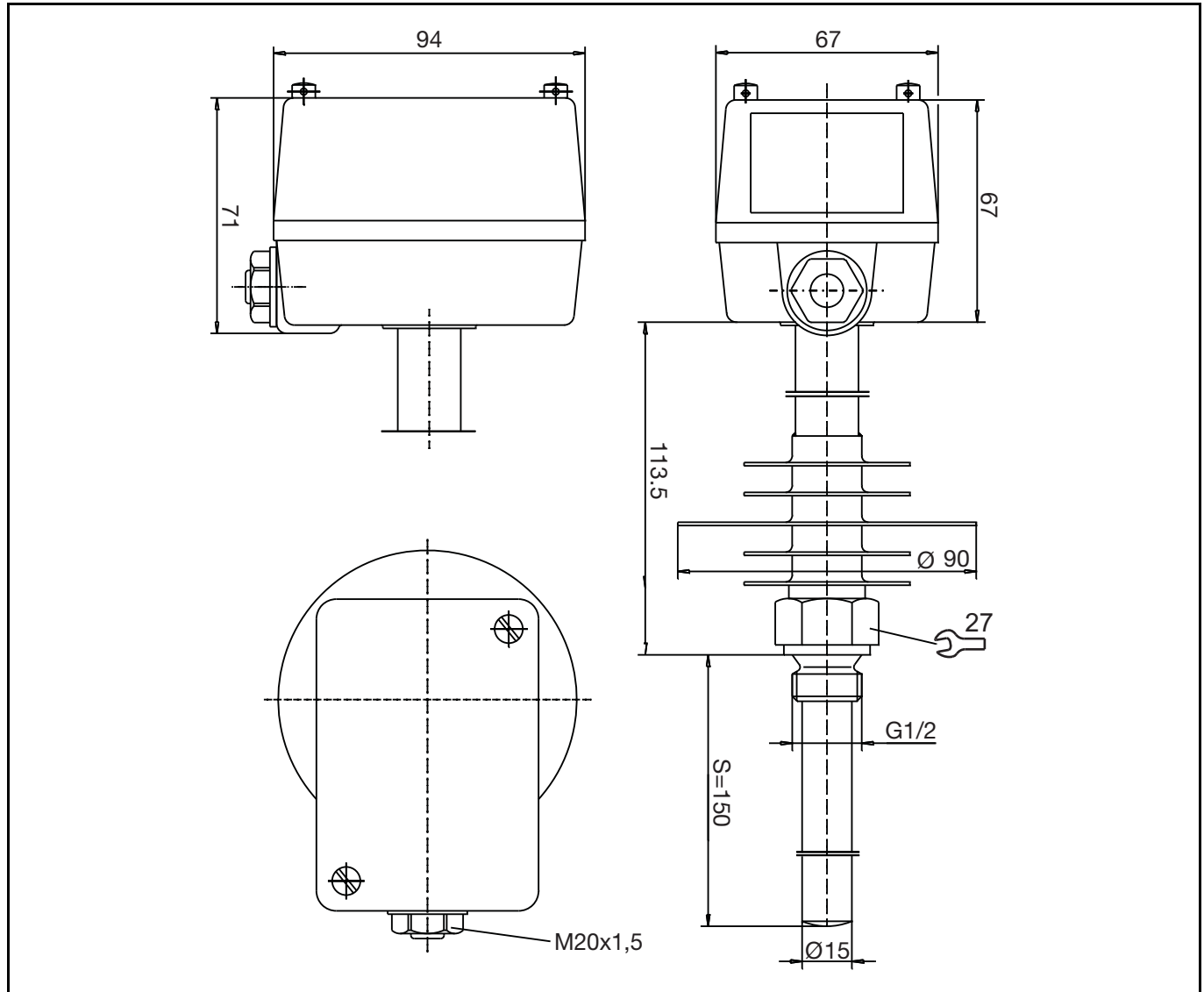
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Data Sheet 601540

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## Dimensions



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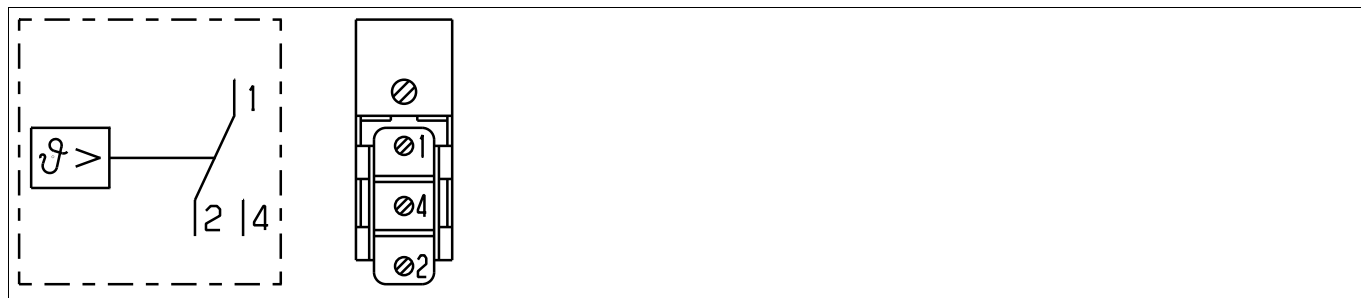
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## Connection diagram

The connection diagram in the data sheet provides information on product selection.

**For the electrical connection, only use the installation instructions or the operating manual.**



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Order details

|        |                                                                       |
|--------|-----------------------------------------------------------------------|
|        | (1) Basic type                                                        |
| 601540 | STM-RW-2 – Exhaust gas temperature monitor (ATW)                      |
|        | (2) Control range 1                                                   |
| 045    | 20 to 400 °C                                                          |
| 056    | 40 to 120 °C                                                          |
|        | (3) Process connection                                                |
| 048    | Immersion tube for screwing in with fixed hexagon and external thread |
|        | (4) Process connection thread type                                    |
| 13     | G 1/2                                                                 |
|        | (5) Process connection material                                       |
| 01     | Steel                                                                 |
|        | (6) Insertion length                                                  |
| 150    | 150 mm                                                                |
|        | (7) Protection tube diameter                                          |
| 15     | 15 mm                                                                 |

Order code

Order example

(1)

(2)

(3)

(4)

(5)

(6)

(7)

/

-

-

-

-

-

601540

/

056

-

048

-

13

-

01

-

150

-

15

Stock versions

| Order code                      | Part no. |
|---------------------------------|----------|
| 601540/056-048-13-01-150-15/000 | 60000903 |
| 601540/045-048-13-01-150-15/000 | 60001115 |