

# Flue gas thermometer TKS

## FLUE GAS THERMOMETER TKS

### Description and usage

The TJS capillary flue gas thermometer is designed for direct measurement of flue gas temperature. The thermometers are designed for installation in the flue of fireplace inserts, fireplaces and solid fuel stoves. For TKS thermometers, the prescribed depth of immersion of the sensor is the full length. The thermometers have a temperature range of 0+600°C. The accuracy of measurement is  $\pm 10^\circ\text{C}$

#### TAR

– in a heating device imperfect burning occurs, in a flue pipe and in a chimney tar substances and vapor is being condensed

#### OPTIMAL

– in a heating device optimal burning of fuel is happening

#### OVERHEATING

– fuel is being burnt inefficiently, heat loss occurs

Data about a temperature need to be assessed during full working conditions, not when starting the burning process. Measured value must not exceed the maximum range of the scale. The thermometer head can be placed in the simple environment in the temperature range  $0^\circ\text{C}$  to  $+70^\circ\text{C}$ . Remove the thermometer sensor when cleaning the flue pipe. Other uses if the thermometers should be discussed with the manufacturer. TKS must not be used as safety equipment.

### Technical data

|                            |                            |
|----------------------------|----------------------------|
| Scale range                | $0 \div 600^\circ\text{C}$ |
| Permissible toleration     | $\pm 10^\circ\text{C}$     |
| Accuracy class             | 2                          |
| Norma                      | UNI EN 131900:2003         |
| Capillary length           | 1000 mm                    |
| Permissible capillary bend | $R_{\max}=5\text{ mm}$     |
| Head diameter              | 60 mm, (64 incl. frame)    |
| Color design               | black/red/white/blue       |

### Mounting

Install the thermometer in such a way that the sensor is entirely in the flue pipe. Before installation, make sure that the temperature at the installation site does not exceed the temperature range of the thermometer when the appliance is in operation. The thermometer must not be installed in pressurized flue systems. The maximum allowable overpressure on the sensor and the thermometer capillary is 0.3 MPa. The sensor must not be subjected to shock or bending during installation. The installation of the thermometer must be carried out in accordance with the applicable legislation.

To make installation easier, the TKS mounting material can be used, see: [www.metra-su.cz](http://www.metra-su.cz)

### Storage conditions

Storage areas must be free from chemical or other agents that could interfere with the finished products stored. Thermometers must be handled gently, without excessive shocks. Thermometers must be placed in a dry room with a

maximum humidity of 70% and a temperature of 0 to  $30^\circ\text{C}$ , without sudden thermal changes.

### Disposal

Dispose of the TKS as follows: Take the TKS to a scrap yard.

### Possible minor faults and their removal

Possible defects are repaired exclusively by the manufacturer.

### Warranty

Provided that the TKS is installed and used in accordance with the instructions in the installation and operating manual, the manufacturer warrants the thermometer in accordance with the current law, unless otherwise agreed.

The manufacturer will refuse warranty repair if the device has been damaged:

- During transport and storage by the customer or his customers
- During installation and dismantling in the customer's or his customers' appliances
- During incompetent handling and installation in another appliance than stated in the manual
- If the thermometer was in a different environment than stated in the manual

### Warranty and post-warranty repairs

Warranty and post-warranty repairs are done exclusively by the manufacturer. Pack the defect product and send it to address:

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