

# Operating manual for

# TFS 0100, TFS 0100 E

## temperature/humidity measuring probe for GMH33xx



### Specification:

#### Measuring range:

humidity: 0,0 ... 100,0 % r.F. (rec. range of application: 5...98%r.h.)

temperature: TFS0100: 0,0 ... 60,0°C

TFS0100E: -40,0 ... +120,0°C (*Attention: please take notice of working temperature for the electronic*)

#### Accuracy:

humidity: ±2% r.h. linearity, ±1% hysteresis

temperature: ±0.5 °C

#### Sensors:

humidity: capacitive polymer-humidity sensor

temperature: Pt1000

#### Electronics:

PC board with evaluation of measuring data and memory for sensor data (measuring range, calibration etc.) integrated in sensor tube (TFS0100) resp. handle (TFS0100E).

Nominal temperature: 25°C

Working temperature: 0 to +60°C (TFS0100, TFS0100E: handle and electronic)

-40 to +120°C (TFS0100E: bronze filter and aluminium tube)

Relative humidity: 0 to +100%r.h.

Storage temperature: -20 to +85°C

Unit connection: 1m PVC connection cable with 6-pin screened lockable Mini-DIN-socket.

#### Dimensions:

Sensor tube: Ø14 x 119mm,

plastic handle: Ø19 x 135 mm (TFS0100) or Ø29 x 153 mm (TFS0100E)

Weight: approx. 100g (TFS0100) or approx. 110g (TFS0100E)

#### EMC:

The TFS0100... device corresponds to the essential protection ratings established in the Regulations of the Council for the Approximation of Legislation for the member countries regarding electromagnetic compatibility (89/336/EWG).

Additional fault: <1%



### Safety requirements:

This device has been designed and tested in accordance with the safety regulations for electronic devices.

However, its trouble-free operation and reliability cannot be guaranteed unless the standard safety measures and special safety advises given in this manual will be adhered to when using the device.

1. Trouble-free operation and reliability of the unit can only be guaranteed if the device is not subjected to any other climatic conditions than those stated under "Specification".
2. If the device is transported from a cold to a warm environment condensation may result in a failure of the device. In such a case make sure the device temperature has adjusted to the ambient temperature before trying a new start-up.
3. If there is a risk whatsoever involved in running it, the unit has to be switched off immediately and to be marked accordingly to avoid re-starting.  
Operator safety may be at risk if:
  - there is visible damage to the device
  - the device is not working as specified
  - the device has been stored under unsuitable conditions for a longer time.

In case of doubt, please return device to manufacturer for repair or maintenance.



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