



Warning: Before installation, commissioning, and operation, ensure that the Gas Density Sensor is suitable for the application in terms of measuring range, design and environmental conditions. Non-observance can result in serious injury and/or damage to equipment. The installation may only be carried out by appropriately trained personnel.

Intended use: This instrument measures the density of gases, in particular of insulation gases in high voltage equipment. The instrument has been designed and built solely for the intended use described here and may only be used accordingly. If the equipment is used in a different manner, the protection provided by the equipment may be impaired and Trafag shall not be liable for any claims at all.

The device is designed to be used in an industrial, electromagnetic environment in accordance with: IEC 61326-2-3 / IEC 61326-1 / IEC 61000-6-2 / IEC 61000-6-3

## Datasheet H72507



[www.trafag.com/H72507](http://www.trafag.com/H72507)

## Manual H73507



[www.trafag.com/H73507](http://www.trafag.com/H73507)

## Output signal

4 ... 20 mA: Linearized to the gas and the measuring range indicated on the type label.

6.5 ... 20 mA: Linearization required according to the formula and information in the datasheet.

## Type label description

Type code (for all inquiries, please indicate this number)

Manufacturing date (WW/YY)

Serial number (for all inquiries, please indicate this number)

Gas / gas mixture for which the instrument is calibrated

Output signal

Measuring range

Operating temperature range

Maximum applicable pressure

Supply voltage and connector pin assignment



### Density Sensor with Current Output



Type 8774.XX.XXXX.XX

S/N 11111111-001

SF<sub>6</sub>: 100 %

XX/XX

Signal: 2-wire current loop

Meas. range: 0 ... 30 kg/m<sup>3</sup>

Operating temp.: -40 ... 80 °C

Overpressure limit: 1600 kPa abs

Config: A-001

U<sub>s</sub> +10 ... 30 VDC (1)

Out 4 ... 20 mA (2)

n.c. (3)

n.c. (4)

↓ (5)




Country of origin: Switzerland

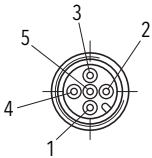
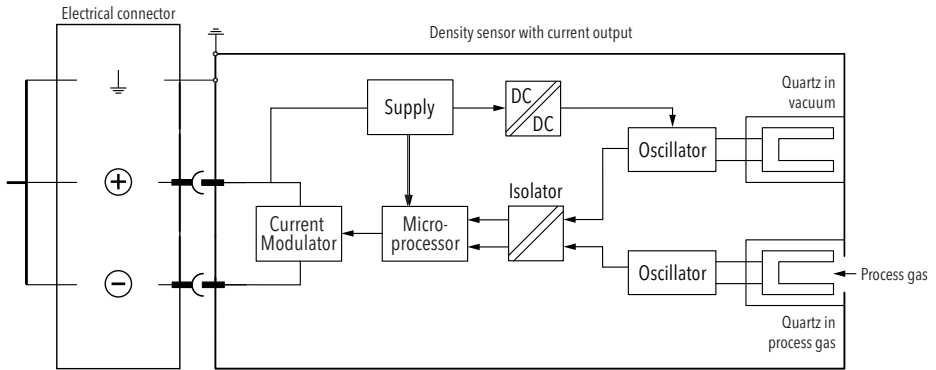
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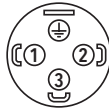
Firmware version

# Connection of the device

## Wiring diagram



PIN 1: ⊕  
PIN 2: ⊖  
PIN 3: empty  
PIN 4: empty  
PIN 5: ⊕



PIN 1: ⊕  
PIN 2: ⊖  
PIN 3: empty  
PIN 4: empty  
PIN 5: ⊕

## Initial response time after installation

Transient response time required for signal output to reach accuracy tolerance band:

- Less than 1 h after connecting monitor to pressurised compartment
- Less than 1 min. when monitor is vacuumised together with compartment before gas filling

## Mounting torque

Maximum mounting torque for pressure connection: 25 Nm