Humidity Sensor
NP524-G

Dual humidity measurement in gases

For relative and absolute moisture in air

- The humidity monitoring sensor NP524-G is designed for inline measurement of the relative and of the absolute water content in air at once.
- Accuracy of relative humidity is ± 2% RH
- Accuracy of absolute humidity is ± 2°C
- Two linear voltage outputs (0 … 10 V)
- Polymeric sensor element based on CMOS chip technology ensures highest reliability and excellent long-term stability.
- Stainless steel housing with protection type IP67

Features

- Simultaneous humidity measurement with dual voltage output
- Inline humidity monitoring
- Relative humidity (% RH)
- Absolute humidity (dew point)
- Excellent long-term stability
- High accuracy over large range
- Polymeric sensor element with CMOS technology

iocto GmbH
Lorsbacher Straße 31
65719 Hofheim am Taunus

info@iocto.com
T +49 6192 9910-0
iocto.com

Humidity Sensor
NP524-G

Humidity

- **Range 1**
  0…100 % RH
- **Range 2**
  -50°C DP…+60 °C DP
- **Repeatability**
  ± 0,1% RH
- **Nonlinearity below**
  below 1% RH
- **Resolution**
  0,03% RH
- **Response time**
  4 seconds
- **Hysteresis**
  ± 1% RH
- **Accuracy**
  ± 2% RH (10…90 %)
  ± 2°C dew point (-40…+40 °C TP)
- **Long term stability**
  below 2% RH per year

Electronic

- **Power supply**
  12…24 V DC
- **Power consumption**
  0,1 W
- **Output 1 (RH)**
  0…10 V
- **Output 2 (°C DP)**
  0…10 V
- **Load**
  max. 3 kOhm

Mechanical

- **Operating temperature**
  -20°C…+80°C
- **Operating pressure up to 300 bar**
  Thread ½ Inch
- **Housing**
  stainless steel
- **Diameter housing**
  27 mm
- **Protection sleeve**
  stainless steel 80 μ m
- **Mounting depth**
  50 mm
- **Protection rate**
  IP67
- **Connector circular**
  4 Pins, M12x IEC 61076-2-101

Applications

- Pharmaceutical- and Food Industry
- Humidifiers Research and Development
- Greenhouses
- Medical Applications