AR252

Humidity and temperature transducer





- a high class digital relative humidity and temperature sensor with a protective filter (ABS material as a standard, slot width 1 mm, and steel wire mesh with mesh size of 0.15 mm):
- a probe integrated with the enclosure, external or on a stainless steel pipe
- a current output, 4÷20 mA (2-wire, with power supply from the current loop); a voltage output 0÷10 V (3-wire), or an RS485 interface
- calculation of the dew/frost point [°C], relative humidity [g/m³] (calculations for atmospheric pressure of 1,013 hPa) with possibility to link the calculated values to an analog output;
- temperature compensation of humidity measurement, high measurement stability
- programmable processing ranges for humidity and temperature
- an LCD display with a keypad (option) that enables configuration of parameters
- configuration of parameters with the keypad, through the RS485 or PRG port (programmer AR956 or AR955) and free ARsoft-CFG software that enables quick setting and copying of all configuration parameters
- protection rating IP65 provided by the enclosure which improves reliability of operation thanks to high resistance to penetration of water and dust and surface condensation of steam inside of the device; an IP40 probe
- available accessory filter with a metal wire mesh to protect the sensor against dust

Contents of the package:

- a transducer

- a transducer

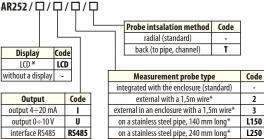
- a user instruction

- a warranty card

Available accessories:

- a metal wire mesh filter (mesh size approx. 25 μ m)
- an AR956 (or AR955) programmer
- a RS485/USB converter

Ordering method



Order example: Note: for the standard design, only the output type must be stated e.g.:

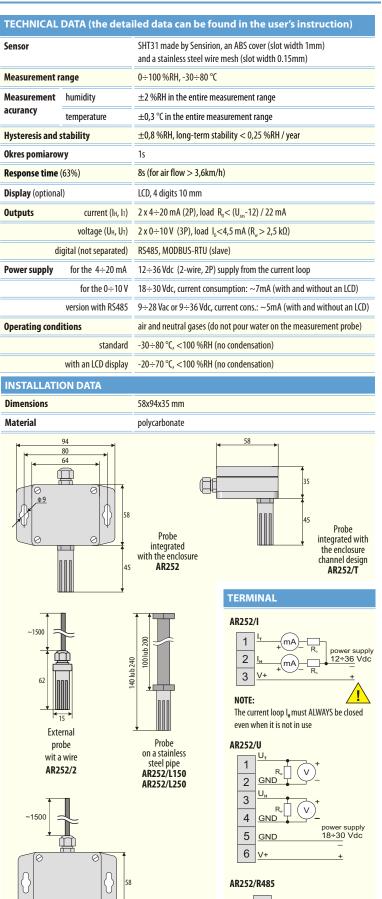
* options charged separately

AR252/I

AR252 w/o display, outputs 4÷20mA, radially mounted probe and integrated with the enclosure

AR252/LCD/U/L150/

ARE32 with a display, analog output 0÷10V, probe on a stainless steel pipe, 140mm long, installed in the back of the enclosure (for channel installations)



2

3

4 - RS

+ RS

9÷28 Vac

Version 3.0.0 2016-09-30

External probe

in an enclosure

AR252/3

CALIBRATION CERTIFICATE - DIGITAL HUMIDITY AND TEMPERATURE SENSORS MADE BY SENSIRION

Calibration Certification – Digital Humidity- and Temperature Sensors



Calibration Certification

Name and address of the manufacturer: Sensirion AG

> Laubisruetistrasse 50 CH-8712 Switzerland

Description: Digital Humidity- and Temperature Sensors

SHT1x

SHT2x

SHT3x

SHT7x

SHTC1

SHTW1

STS21

STSC1

The above mentioned products are calibrated to meet the specifications according to the corresponding Sensirion data sheet. Each device is individually tested after its calibration.

Sensirion uses transfer standards for the calibration. These transfer standards are themselves subject to a scheduled calibration procedure. The calibration of the reference itself used for the calibration of the transfer standards is performed by an ISO/IEC 17025 accredited laboratory.

The accreditation body is full member of the International Laboratory Accreditation Cooperation (www.ilac.org). Calibration certificates issued by facilities accredited by a signatory to the ILAC Mutual Recognition Arrangement (MRA) are accepted by all signatories to the ILAC MRA.

This provides traceability of measurement to recognized national standards and to units of measurement realized at the "National Physical Laboratory" (NPL) or other recognized national standards laboratories like "Physikalisch-Technische Bundesanstalt" (PTB) or "National Institute of Standards and Technology" (NIST).

Staefa, November 2015

Stephan Weber.

Director.

Head of Quality Management, Sensirion AG

Volker Born

Manager,

Head of Quality Engineering, SensirionAG

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Click to view similar products for Board Mount Humidity Sensors category:

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HSHCAA114A SI7020-A20-IMR SI7023-A20-IM1R SI7021-A20-IMR 6921734990105 AHT25 DHT20 CHR03-3035-S CHR03-2025-S HDC3020DEFR AM2108 AHS01IB AM2305B AHT21B CHT-DS-I CHT-DS-R CHT13 CHT-WS-R CHT-WS-I CHT-DG CHT-SHT30-485 GXHT3WM-T GXHTC3C GXHT3WM-P HDC2021DEBR HDC3021DEHR ETUH22 AR252/I/T AR252/I/L150 07300.1-00 HIH8130-000-001 HIH8130-021-001 HTU21D CC2D35S-SIP CC2D33S-SIP CC2D33-SIP CC2D23S-SIP CC2D23-SIP 1-100711-01 251-10509 HIH7130-000-001 HIH6131-021-001 HIH-4000-004 HIH-4000-003 HIH-4000-002 HIH7120-021-001 HIH6130-021-001 3.000.465 3.000.466 1-101625-01