

ATMOSPHERIC PRESSURE, HUMIDITY AND TEMPERATURE TRANSDUCER





- high-end digital sensor for atmospheric pressure (P.) and humidity (RH) and air temperature (T) with protective filer (ABS material, 1mm gap width and 0.15mm stainless steel mesh)
- probe integrated into the housing, on the wire or on the stainless steel tube
- 2 current outputs 4÷20mA (2-wire with current loop power supply) or 2 voltage outputs 0÷10V (3-wire) or RS485 interface
- for analog outputs, possible connection with any measured value
- programmable ranges of processing measured values
- LCD display with keyboard (optional) for viewing measurements and configuation of parameters
- parameters configuation from the keyboard via RS485 or PR port (AR956 or AR955 programmer) and a free ARsoft-CFG computer program that allows to quickly set and copy all configuation parameters
- high stability of measurements
- Protection level IP65 ensured by the housing, increasing work reliability thanks to high resistance to the penetration of water and dust as well as surface condensation of water vapor inside the device, IP40 probe (the measuring probe is not resistant to flooding or ondensation of water vapor inside it)
- calculation of dew/frost point [°C], absolute humidity [g/m3] (calculation for atmospheric pressure 1013 hPa) with the possibility of linking the calculated values to an analog output
- for the transducer with RS485 all measurements and calculated values available for reading in the register map MODBUS

Contents of the set:

- transducer - user manual

Available accessories:

- an AR956 (or AR955) programmer
- RS485/USB converter

on a stainless steel pipe, 240mm long

Ordering procedure AR253/□/□/□/□ Probe installation method | Code radial (standard) back (to pipe, canal) Display Code LCD LCD: without a display Measurement probe type Code integrated with the enclosure (standard) Output Code external with a 1.5m wire 2 output 4÷20 mA external in an enclosure with a 1,5m wire 3 output 0÷10 V U on a stainless steel pipe, 140mm long³ L150

Order example:

interface RS485

options charged separately

L250

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

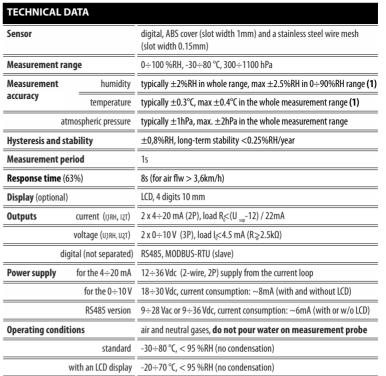
RS485

AR253 / I

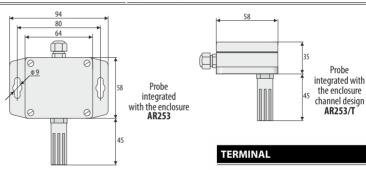
AR253 w/o display, outputs 4÷20mA, radially mounted probe and integrated with the enclosure

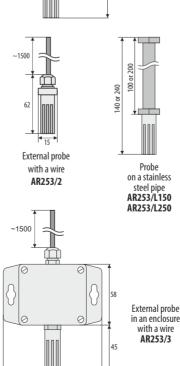
AR253 / LCD / U / L150 / T

AR253 with a display, analog outputs 0 \div 10V, probe on a stainless steel pipe, 140mm long, installed in the back of the enclosure (for channel installations)

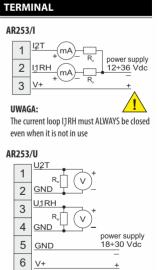


INSTALLATION DATA Dimensions 58x94x35 mm (for standard configurtion) Material polycarbonate (probe cover: ABS)





94



9÷36 Vdc

9÷28 Vac

Version 1.0.1 2024.10.17



AR253/R485

1

2

3

4

+ RS