

TEMPERATURE AND HUMIDITY CONTROLLER









- high class digital relative humidity and temperature sensor with a protective filer (ABS material as a standard, mesh: 1 mm)
- probe integrated with the enclosur, external on a wire or a stainless steel pipe
- temperature compensation of relative humidity measurement
- programmable digital filer smoothing and stabilizing measurements
- 3 independent outputs of on/o fftype (ON-OFF, control 2- and 3-position):
 - output 1 (main): ON-OFF with hysteresis, PID, AUTOTUNING PID
- output 2, 3 (auxiliary/alarm): ON-OFF with hysteresis
- performance characteristics: heating/humidifiction, cooling/drying, relative alarms
- analogue output 0/4÷20mA (standard) or 0/2÷10V (optional), constant-control, retransmission
- calculation of dew/frost point (° C) and absolute humidity (g/m³)
- possibility to choose control signal for outputs (humidity or temperature)
- \blacksquare manual mode (open control loop) available for binary and analogue outputs, setting the value of the output signal in the range of $0 \div 100\%$
- programmable BIN digital input and function button "F" for changing the operational mode of the controller: control start/stop mode, manual mode for outputs, two-position switching of the set value (day/night), keypad lock etc.
- two-line digital LED readout with adjustable brightness
- access to configuation parameters protected by a user password or no password required
- configuation of parameters from keyboard, through the RS485 or AR956 (AR955) programmer and ARSOFT-WZ1 software for quick copy all configuation parameters
- available accessory filer with metal mesh to increase sensor protection
- optional RS485 interface, galvanically insulated, MODBUS-RTU protocol
- universal power supply 15-350 Vdc, 20-250 Vac / 50-60Hz
- IP65 degree of protection provided by the industrial housing which improves its reliability due to high resistance to water, dust and condensation inside the unit

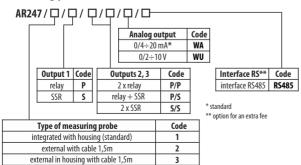
Contents of set:

- controller
- user manual

Available accessories:

- filer with metal mesh (mesh~25 μm)
- programmer AR956 (or AR955)
- RS485 to USB converter
- measuring probes AR281/282/283/284

Ordering procedure



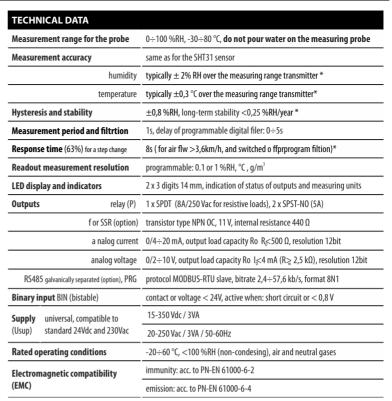
L150

For example: AR247/1/P/P/P/WA/RS485

on stainless steel pipe, length 150mm

on stainless steel pipe, length 250mm

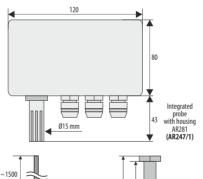
probe integrated with housing, 3 relay outputs, output 0/4÷20mA, interface RS485

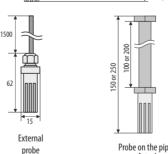


*for controllers with software version below "u11", measurement accuracy is in accordance with documentation attached with purchase (\pm 3 \div 5% RH, \pm 0.5 \div 1.8° C, hysteresis \pm 1% RH, long-term stability <0.5% RH / year)

DIMENSIONS, INSTALLATION DATA

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Dimensions , weight, material	120 x 80 x 55 mm, ~340g (AR247/1 version), polycarbonate
Fixing methods	4 holes Φ4,3mm, distance108x50 mm when the front cover is removed



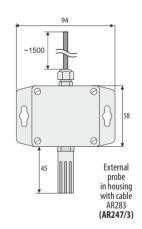


| External | probe | Probe on the pipe | of steel | with cable | stainless | AR282 | AR284/L250 (AR247/L50) | AR246/L250 (AR247/L250) | AR246/L250 (



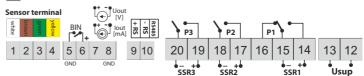
WARNING:
For older AR247 regulators
exchangeable AR28x measuring probes
should be ordered with SHT11 sensor.
Using a standard probe with sensor
SHT31 needs updating regulator's

ware (up to version> "u10")



TERMINAL STRIPS, ELECTRICAL CONNECTIONS

PRG - socket located on the board of the display (do not use in the same time with RS485)



Connections available after removing housing cover and display board

Version 3.0.5 2024.10.17