HR-1P3D

VM653300



[Model variant]

Digital panel controller (33x75) suitable for humidity regulation. The device can be connected to linear sensors.

General features

- Parameter setting in digital mode:
  - Set-point
  - Differential
  - Neutral zone
  - Output actuation times
  - Function and digital input delay time
  - Alarm delay time / Buzzer enable
  - Probe calibration OFFSET
  - Displayed resolution
  - Temperature unit of measurement
  - Measurement display filter (refresh rate)
  - Probe input type
  - Password
- Modes of operation (adjustment)
  - ON/OFF Direct and/or Reverse action with or without Neutral Zone
  - PWM Direct, Reverse action with or without Neutral Zone
  - ALARM
- 2 independent setpoints
- Digital input with configurable function:
  - external alarm
  - ON/OFF controller
  - set-point switching
  - direct/Reverse switching
- Acoustic and visual alarm signalling for:
  - external alarm (digital input)
  - probe alarm (malfunction)
  - minimum or maximum alarm

Technical specifications

Power supply	
Power supply	12 ÷ 24 Vac/Vdc (-10% ÷ +10%)
Frequency	50 / 60 Hz
Absorption	3 VA

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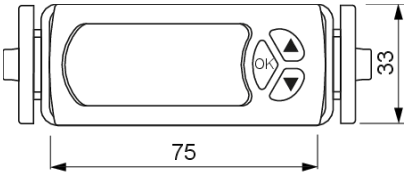
Revision date: 2026-02-02

Measure	
Humidity display resolution	0,1 (per valori compresi nel campo 0 ÷ 99,9), 1 (per valori <-9,9 e > 99,9) RH
Humidity measurement accuracy	± 0,5% del valore di fondo scala ± 1 digit RH
Functions	
Keypad lock function	✓
Probe alarm buzzer	✓
Functional characteristics	
Humidity display range	0 ÷ 100 RH
Operating conditions	
Operating temperature range	0 ÷ 50 °C
Relative humidity	< 80% RH
Storage temperature range	-25 ÷ 70 °C
Viewing	
Display	Red LEDs
Digits number	3
Display range	0 ÷ 100 RH
Inputs	
Digital input	✓
No. digital inputs	1
Auxiliary input features	Configurable
Number of connectable probes	1
Type of connectable probes	Linear sensors (output 0-20 mA, 4-20 mA, 0-1 V)
Outputs	
Relay number	1
Relay type	Heat exchange
Relay capacity at 250 Vac	8 A
Probe power supply	9 Vdc (max 30 mA)
Mechanical features	
Protection degree	IP54 (on the front) IP20 (on terminals)
Overall dimensions	
Height (A)	33 mm
Width (B)	75 mm
Depth (C)	65.5 mm

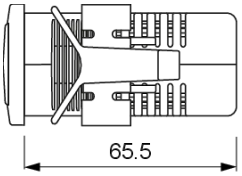
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Dimensions

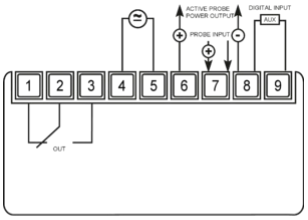
Front View



Side View

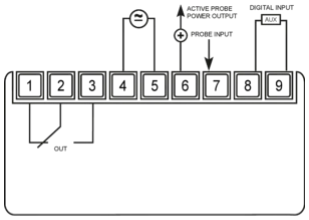


Wiring diagram



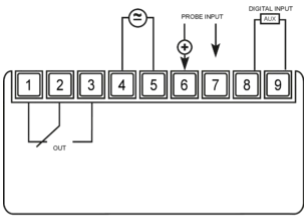
Probe input:
- 0÷1 V
- 4÷20 mA
- 0÷20 mA

Active probe output power:
- 9 Vdc max 30 mA



Probe input:
- 0÷1 V
- 4÷20 mA
- 0÷20 mA

Active probe output power:
- 9 Vdc max 30 mA



Probe input:
- 0÷1 V
- 4÷20 mA
- 0÷20 mA

Product variants

HR-2P3D

VM655800

Digital panel controller (33×75) connectable with linear sensors, 12 ÷ 24 Vac/Vdc, digital input, and 2 relays

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Accessories compatible with the product

SUR 2

VN873600

Humidity sensor providing a voltage or current signal proportional to the measured humidity

TM3 230/12

VE256400

Transformer with 230 Vac terminals, 3 VA power and 12 V secondary voltage

TM3 115/12

VE257200

Transformer with 115 Vac terminals, 3 VA power and 12 V secondary voltage

TM3 230/24

VE258000

Transformer with 230 Vac terminals, 3 VA power and 24 V secondary voltage

TM3 115/24

VE259800

Transformer with 115 Vac terminals, 3 VA power and 24 V secondary voltage

TM6 230/12

VE260600

Transformer with 230 Vac terminals, 6 VA power and 12 V secondary voltage

TM6 230/24

VE261400

Transformer with 230 Vac terminals, 6 VA power and 24 V secondary voltage

Reference standards

Compliance with Community Directives:

• 2014/35/UE (LVD) • 2014/30/UE (EMCD) • 2011/65/UE e 2015/863/UE (ROHS)

is declared with reference to the following Standards:

• EN IEC 60730-2-13 • EN IEC 63000

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