HR-1P3A

VM654100



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	100 ÷ 230 Vac (-15% ÷ +15%) 140 ÷ 300 Vdc (-15% ÷ +15%)
Frequency	50 / 60 Hz
Absorption	3 VA

Vemer S.p.A. declines all responsibility for the use of the products for purposes other than those for which they are intended, as indicated in the technical documentation. Vemer S.p.A. reserves the right to make, without prior notice, such changes as may, in its sole discretion, improve the technical and functional characteristics of the products and the related production logic. The technical characteristics and images of the products indicated are given for information only and are not binding in any way, since they may be modified without prior notice.

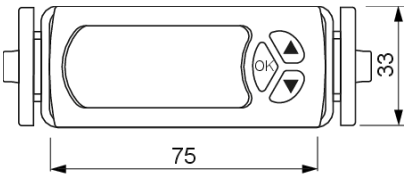
Revision date: 2026-02-02

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)	81 mm

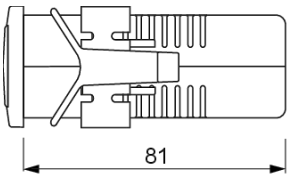
Vemer S.p.A. declines all responsibility for the use of the products for purposes other than those for which they are intended, as indicated in the technical documentation. Vemer S.p.A. reserves the right to make, without prior notice, such changes as may, in its sole discretion, improve the technical and functional characteristics of the products and the related production logic. The technical characteristics and images of the products indicated are given for information only and are not binding in any way, since they may be modified without prior notice.

Dimensions

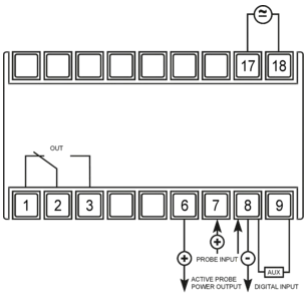
Front View



Side View

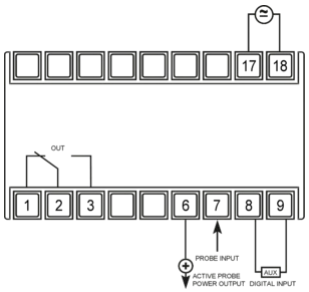


Wiring diagram



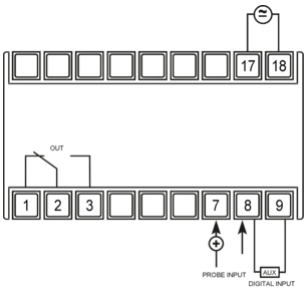
Probe input:
- 0÷1 V
- 4÷20 mA
- 0÷20 mA

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

Model variants

HR-P3D

Panel-mounted digital controller (33x75)
connectable to linear sensors.

Vemer S.p.A. declines all responsibility for the use of the products for purposes other than those for which they are intended, as indicated in the technical documentation. Vemer S.p.A. reserves the right to make, without prior notice, such changes as may, in its sole discretion, improve the technical and functional characteristics of the products and the related production logic. The technical characteristics and images of the products indicated are given for information only and are not binding in any way, since they may be modified without prior notice.

Accessories compatible with the product

SUR 2

VN873600

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

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

Vemer S.p.A. declines all responsibility for the use of the products for purposes other than those for which they are intended, as indicated in the technical documentation. Vemer S.p.A. reserves the right to make, without prior notice, such changes as may, in its sole discretion, improve the technical and functional characteristics of the products and the related production logic. The technical characteristics and images of the products indicated are given for information only and are not binding in any way, since they may be modified without prior notice.