ESTHW50x

Environmental Sensor, Temperature and Humidity Transmitter, Wall type

Main features

- Wall mounting
- 0-10 V or 4-20 mA output
- 0 to 50ºC temperature and 0 to 95% humidity measuring range
- Simple installation
- Compact housing

Applications

- Monitoring for HVAC process / air conditioning / environmental ventilation control
- Air conditioning monitoring for building / hospital
- Humidity monitoring for house / hotel environment

Description

Simple transmitter for temperature and humidity.
Comes with 2 analog outputs.
Compact and easy to install.

CARLO GAVAZZI

References

▶ **Product selection key**

👉 **ESTHW50 ☐**

Enter the code entering the corresponding option instead of ☐

Code	Option	Description
ESTH	**-**	Model
W	**-**	Wall mounting
50	**-**	Temperature range
☐	**V**	Output: 0...10 V
	A	Output:4...20 mA

▶ **Type selection**

Mounting	Temperature range	Output	Power supply	Code
Wall	0°... +50°C	0...10 V	15...35 VDC and 19...29 VAC	**ESTHW50V**
Wall	0°... +50°C	4...20 mA	11...35 VDC	**ESTHW50A**

Features

Power Supply

Power supply	2-wire	11...35 VDC
	Signal connection	15...35 VDC and 19...29 VAC
Current consumption	2-wire	< 40 mA
	Signal connection	DC < 15 mA, AC < 40 mA

Outputs

2 x Output	4...20 mA / 0...10 V

Environmental

Ambient temperature	0°... +50°C (32°... +122°F)	Operating
	-5° ... +60°C (23° ... +140°F)	Storage
Degree of protection	IP20	
Electrical protection	Polarity protection, over voltage and short circuit	

Measuring Values

Sensor type	Capacitive humidity sensor & PT 100 Ω	
Media measured	Air	
Measuring range	Temperature (T)	0...50˚C (32 -122°F)
	Humidity (H)	0...95% RH
Signal connection	2-wire / 3-wire	
Accuracy (@ +25°C)	Temperature	±0.3°C+0.002°C x t actual
	Humidity	±3% RH (30...70%) of F.S. ±5% RH (20...80%)
	Temperature influence	0.2% RH/°C
Response times (t90) (@ +25°C)	< 20 s	
Load resistance	2-wire	RL < (+V-10) / 0.02 < 500 Ω
	3-wire	> 10 KΩ

Mechanics/electronics

▶ Connection

Electrical connection	Screw terminal

▶ Wiring
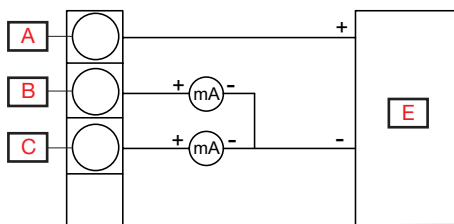
Fig. 1 *2-wire*
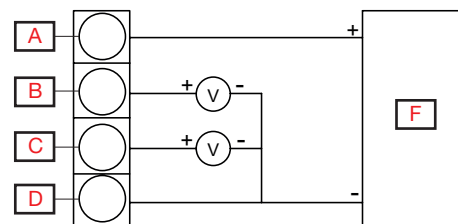
Fig. 2 *3-wire*

A	+V	D	GND
B	Humidity	E	11...35 VDC
C	Temperature	F	15...35 VDC or 19...29 VAC

▶ Housing

Housing	PC fire-proof class (PC-110)
Installation	Wall mounting
Weight	60 g

► **Dimensions**
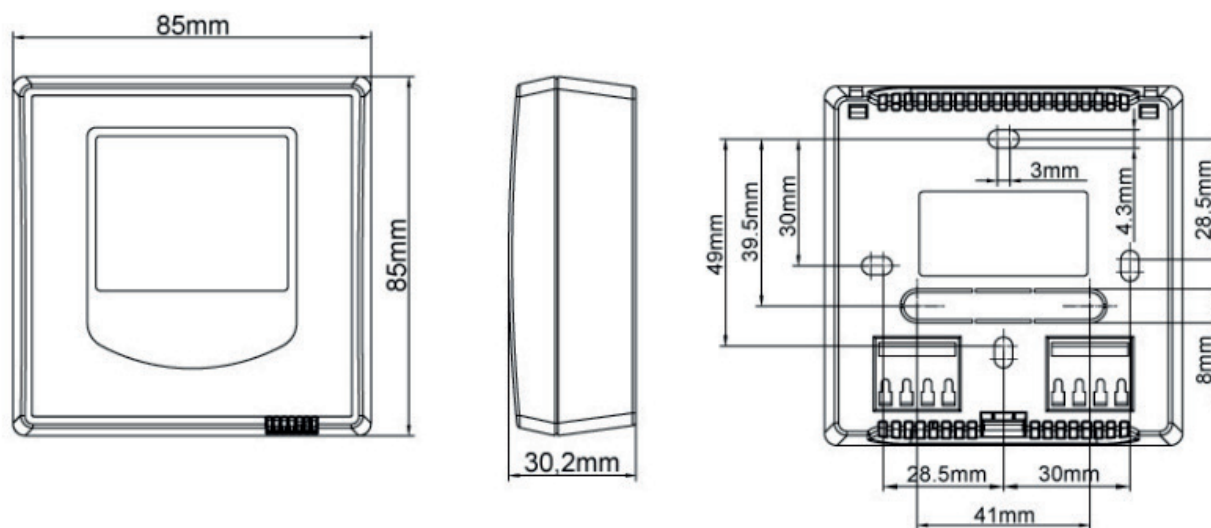
Compatibility and conformity

► **Approvals and markings**

CE-marking	$C \in$

Delivery contents and accessories

▶ Delivery contents

Environmental sensor: ESTHW50x

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