

По вопросам продаж и поддержки обращайтесь:

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	Самара (846)206-03-16	

Единый адрес: gct@nt-rt.ru **Веб-сайт:** www.galltec.nt-rt.ru

Гигростаты eStat10 GALLTEC+MELA. Техническое описание



eStat10

Electronic room humidistat with 2 switching outputs

- Easy to install
- 2 potential-free switching outputs configurable as openers or closers
- 2 independently configurable setpoints
- 2 independently configurable switching hystereses
- Display of current relay switching states
- 2 continuous 0...10 V signal outputs for relative humidity and temperature
- Temperature compensation
- Alternating display of relative humidity and temperature

Technical Data

Humidity

Measuring range	0...100 %rh
Setting range of the setpoints	5...95 %rh
Setting range of the switching hystereses	0.5...9 %rh

Measuring uncertainty	
10...90 %rh at 25 °C max	$\leq \pm 3$ %rh
0...10 %rh and 90...100 %rh at 25 °C	Additional $\leq \pm 0.2$ %rh / %rh
Long term stability	≤ 0.5 %rh/a
Hysteresis	± 1 %rh
Typ. temperature influence at 25 °C	± 0.05 %rh/K

Electrical data

Switching outputs:	2 relay contacts potential-free, normally open
Setting as opener / closer	Via DIP switch
Switching voltage	≤ 48 V DC / AC ≥ 100 μ V
Breaking capacity	≤ 60 W / 62.5 VA
Power factor	> 0.9
Switching cycles (at Pmax)	$> 10^5$
Switching current	≤ 2 A
Continuous output rel. humidity	0...10 V DC
Continuous output temperature	0...10 V DC
Supply voltage	15...30 V DC 13...26 V AC
Consumption	≤ 30 mA
Standards applied	EN 61326-1

Temperature

Output ranges	0...+50 °C -30...+70 °C 0...+100 °C Further ranges on request
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Measuring uncertainty at 23 °C	Typ. ± 0.3 K
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General Data

Measuring medium	Air, non-pressurised, non-condensing, non-aggressive
Operating temperature	-30...+60 °C
Storage temperature	-40...+85 °C
Electrical connections at mains terminals	
Wire cross-section at each connection	max. 1.5 mm ²
Cable diameter	
→ Surface-mounted cable	max. $\varnothing$ 5 mm
→ Concealed cable	
See: User instructions on page 4	
Housing IP rating	IP 30D
Safety category	III
Housing materials	ABS
Housing colour	Similar to RAL 9003 Signal white
Digital display	2 lines

Connection diagrams

	1	GND
	2	+ U _B 15...30 V DC or 13...26 V AC
	3	Output humidity 0...10 V
	4	Output temperature 0...10 V

	5	Relay 1
	6	Relay 1
	7	Relay 2
	8	Relay 2

Relay outputs: potential free, normally open

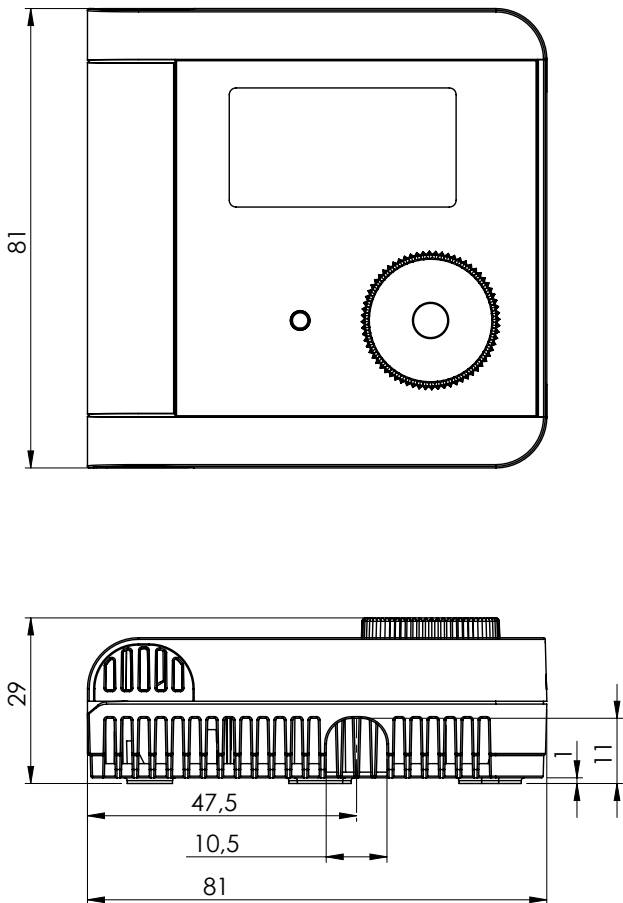
ESD protection advice

The devices contain components which can be damaged by the effects of electrical fields or by charge equalisation when touched.

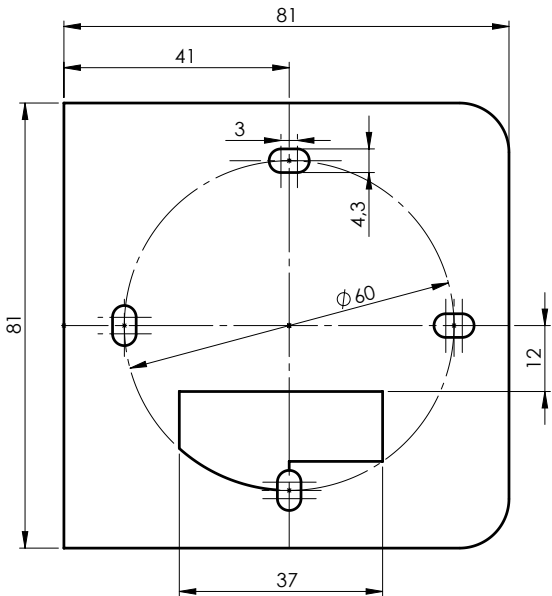
The following protective measures must be taken when the housing of the device is to be opened for connection:

- Before opening the housing, ensure electrical potential equalisation between you and your environment.
- Pay particular attention to ensure that this potential equalisation is maintained while you are working with the housing open.

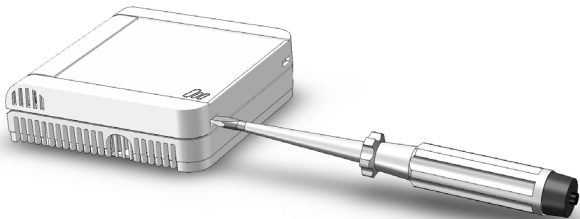
Dimensions



Drilling pattern

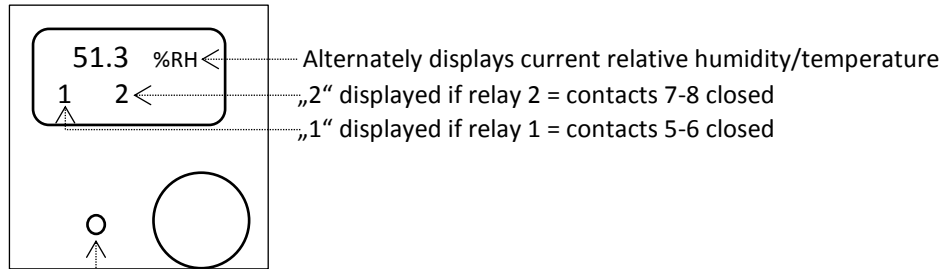


Opening the housing



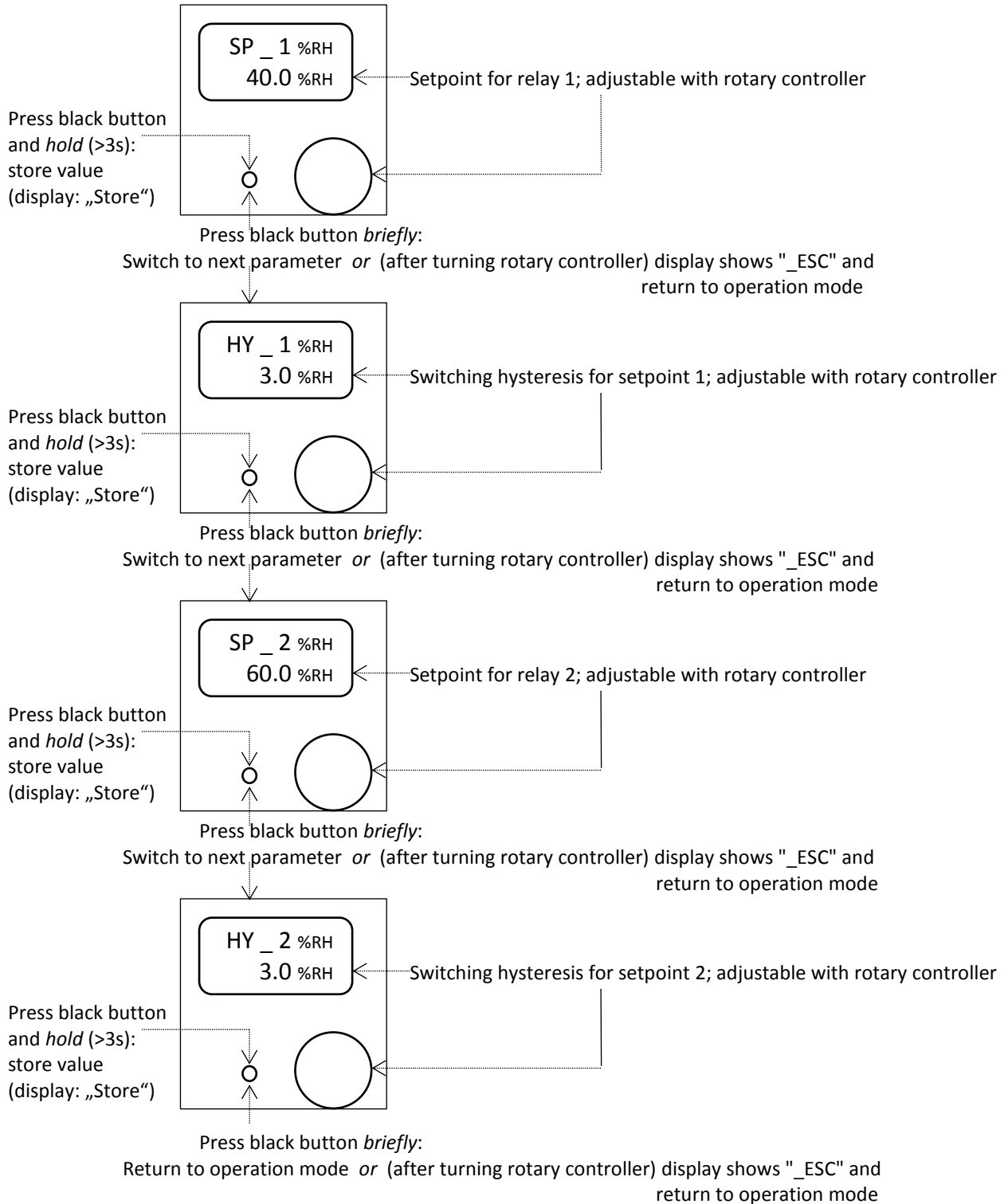
Configuration guide

Operation mode



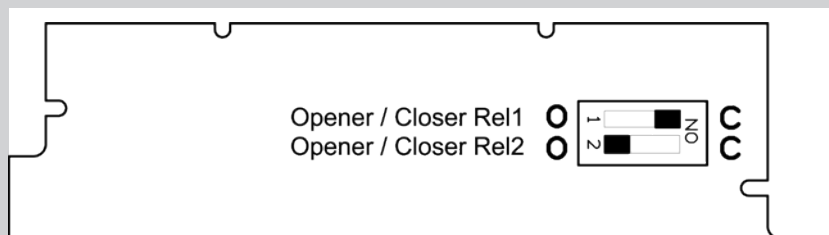
Press black button *briefly*: switch to

Configuration mode



Setting relay 1 and 2 as opener or closer

DIP-Switch	Current	reading
set to	$< \text{setpoint} - \frac{\text{switching hysteresis}}{2}$	$> \text{setpoint} + \frac{\text{switching hysteresis}}{2}$
C (closer)	Relay = open	Relay = closed
O (opener)	Relay = closed	Relay = open



Installation instructions

Position	The installation site should be chosen such that a representative measurement of air humidity can be guaranteed, i.e. the humidity readings at the installation site should correspond to those in the room. Avoid areas in the vicinity of radiators, doors and exterior walls, as well as direct sunlight.
Flush mounting	When flush-mounting the device, appropriate seals should be used to prevent external air from reaching the sensor element of the device through the concealed housing.
Connection to surface-mounted and concealed cables	When connecting to a concealed cable, the knock-out part of the housing floor should be broken out to allow the cable to pass through. When connecting to a surface-mounted cable, the separators at the hollowed-out points in the side of the housing can be broken out.
Connection	The device must be connected by qualified personnel.
	The housing contains sensitive components. When opening the housing, electrostatic discharge (ESD) precautions must be observed.
	Leads connected to the sensor must not run parallel to strong electromagnetic fields.
	Where there is a possibility of voltage surges, install surge protection devices.

User instructions

Damaging influences	Depending on their type and concentration, aggressive media containing solvents can cause incorrect readings or cause the sensor to fail. Substances deposited on the sensor element (e. g. resin aerosols, paint aerosols, smoke deposits etc.) are harmful as they eventually form a water-repellent film.
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This information is based on current knowledge and is intended to provide details of our products and their possible applications. It does not, therefore, act as a guarantee of specific properties of the products described or of their suitability for a particular application. In our experience, the equipment may be used across a broad spectrum of applications under the most varied conditions and loads. We cannot assess every individual case. Purchasers and/or users are responsible for checking the equipment for suitability for specific applications. Any existing industrial rights of protection must be observed. The quality of our products is guaranteed under our General Conditions of Sale. Datasheet eStat10. Issue: December 2014. Subject to modifications.

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