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ACTUAL SIZE



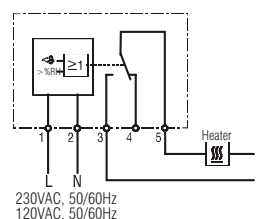
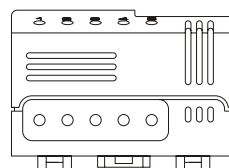
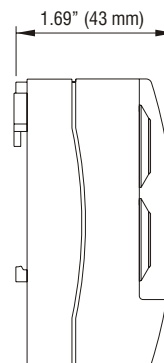
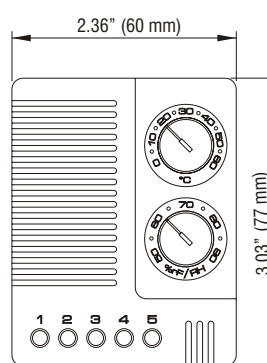
## Electronic Hygrotherm ETF 012

- Controls both temperature and humidity
- High switching capacity
- Optical function displays (LED)
- DIN rail mountable

The ETF 012 senses the ambient temperature and relative air humidity. Depending on which contact combination is chosen, it then turns on or off a connected device if either the temperature is below, or the humidity above the set point. The integrated LED in each adjustment knob is lit indicating the active function.

### Technical Data ETF 012

|                                    |                                                       |                 |
|------------------------------------|-------------------------------------------------------|-----------------|
| Part No. 01230.0-00                | 230 VAC, 50/60 Hz                                     | Scale: °C / %RH |
| Part No. 01230.9-00                | 120 VAC, 50/60 Hz                                     | Scale: °F / %RH |
| Part No. 01230.9-01                | 120 VAC, 50/60 Hz                                     | Scale: °C / %RH |
| Temperature range:                 | 32-140°F (0-60°C) adjustable                          |                 |
| Humidity range:                    | 50-90% RH adjustable                                  |                 |
| Switching difference (hysteresis): | approximately 3.6°F (2K) ± 1K tolerance               |                 |
|                                    | approximately 4% RH ± 1% tolerance                    |                 |
| Response time:                     | approximately 160 sec.                                |                 |
| Contact type:                      | Change-over contact                                   |                 |
| Relay output (switching capacity): | NC: AC 240 V - 6A resistive, 1A inductive             |                 |
|                                    | NO: AC 240 V - 8A resistive, 1.6A inductive           |                 |
|                                    | NC: AC 120 V - 6A resistive, 1A inductive             |                 |
|                                    | NO: AC 120 V - 8A resistive, 1.6A inductive           |                 |
|                                    | DC 24 V - 4A resistive                                |                 |
| Service life:                      | >100,000 cycles                                       |                 |
| Function control light:            | LED                                                   |                 |
| Connections:                       | 5-pole terminal for AWG 14 max (2.5 mm <sup>2</sup> ) |                 |
| Mounting:                          | Clip for 35 mm DIN rail (EN 50022)                    |                 |
| Dimensions (H x W x D):            | 3.03 x 2.36 x 1.69" (77 x 60 x 43 mm)                 |                 |
| Housing:                           | Plastic, UL94V-0                                      |                 |
| Weight:                            | Approx. 6 oz (0.2 kg)                                 |                 |
| Mounting position:                 | Vertical                                              |                 |
| Operating temperature:             | 32 to 140°F (0 to 60°C)                               |                 |
| Storage temperature:               | -4 to 176°F (-20 to 80°C)                             |                 |
| Protection type:                   | IP 20                                                 |                 |
| Agency approvals:                  | UL (VDE - p/n 01230.0-00 only)                        |                 |

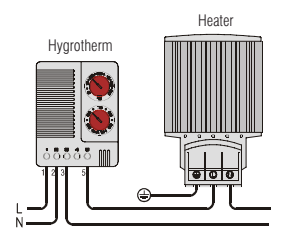


Connection diagram

**Input:** Contacts 1 & 2: Supply voltage (120 VAC or 230 VAC)

**Relay output:** Contacts 3 & 5 and contacts 4 & 5 (see table on left)

| Contacts | close at ...     | open at ...      | use for        |
|----------|------------------|------------------|----------------|
| 3 and 5  | humidity rise    | humidity drop    | heaters        |
|          | temperature drop | temperature rise | de-humidifiers |
| 4 and 5  | humidity drop    | humidity rise    | cooling        |
|          | temperature rise | temperature drop | humidifiers    |



Example of connection

Specifications are subject to change without notice. Suitability of this product for its intended use and any associated risks must be determined by the end customer/buyer in its final application.

STEGO, Inc. · 2270 Northwest Parkway · Suite 170 · Marietta, GA 30067 · Tel: (770) 984-0858 · Fax: (770) 984-0615  
Toll free: 1-888-783-4611 (US & Canada only) · [www.stegousa.com](http://www.stegousa.com)

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