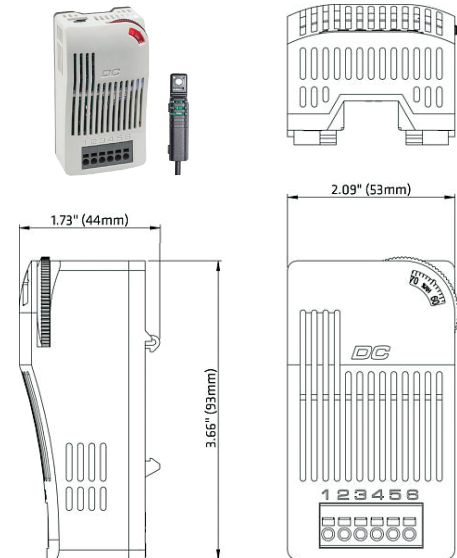


# DCF 010

**HYGROSTATS | 20 VDC TO 56 VDC**  
**ELECTRONIC HYGROSTAT**

The electronic DC hygrostat with integrated switch module is used to control heating and cooling equipment, filter fans or signal devices through the relay. The hygrostat measures the relative humidity and can switch a signal current via an internal relay. The external sensor can be positioned freely anywhere in the control cabinet for precise measurement of the atmospheric humidity. Additionally, this hygrostat is available in versions that not only measure the relative humidity via the external sensor, but also the temperature.

<b>Switching Difference (Humidity)</b>	4 % RH ( $\pm 1$ % tolerance) at +77 °F (+25 °C), 50 % RH
<b>Reaction Time</b>	approx. 5 sec.
<b>External Sensor</b>	cable 2 m with snap in connector (included)
<b>Contact Type</b>	contact maker NO (MOSFET) or contact breaker NC (MOSFET)
<b>Service Life</b>	>100,000 cycles
<b>Operating Voltage</b>	DC 20 to 56 V
<b>Optical Indicator</b>	LED
<b>Connection</b>	6-pole terminal: stranded wire* AWG 16 (1.5mm <sup>2</sup> ); max. AWG 12 (2.5mm <sup>2</sup> )
<b>Housing</b>	plastic, UL 94V-0, grey (bicolor)
<b>Mounting</b>	clip for 35 mm DIN rail, EN 60715
<b>Mounting Position</b>	vertical
<b>Dimensions</b>	3.7 x 2.1 x 1.7" (93 x 53 x 44 mm)
<b>Weight</b>	approx. 4.2 oz. (120 g) incl. sensor
<b>Operating/Storage Temp.</b>	-40 to +176 °F (-40 to +80 °C)
<b>Operating/Storage Humidity</b>	max. 90 % RH (non-condensing)
<b>Protection Type</b>	IP20
<b>Approvals</b>	UL File No. E164102 / VDE / EAC



*Dimensioned Drawings.*

- High DC switching capacity
- Adjustable humidity
- Small hysteresis
- Optical operating display (LED)
- Integrated switch module
- Precise measurement via an external sensor

\*When connecting with stranded wires, wire end ferrules must be used.



Part No.	Max. Switching Capacity (Relay Output)	Operating Temperature	Primary Switching Function Setting Range Temp.	Secondary Switching Function** Humidity Setting	Contact (Primary)
01012.0-20	DC 15 A	-22 °F to +104 °F	40 to 90 % RH	+41 °F (+5 °C) pre-set	Contact maker (NO)
01012.0-21	DC 13 A	-22 °F to +122 °F	40 to 90 % RH	+41 °F (+5 °C) pre-set	Contact maker (NO)
01012.0-22	DC 11 A	-22 °F to +140 °F	40 to 90 % RH	+41 °F (+5 °C) pre-set	Contact maker (NO)

\*\*Versions with secondary switching function can also register the temperature and therefore offer an additional protection for electronics. Switching difference: 3 K ( $\pm 1$  K tolerance) at +77 °F (+25 °C), 50 % RH.