

ELECTRONIC THERMOSTAT

DCT 010 | DC 20 to DC 56 V



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

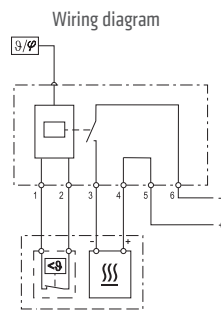
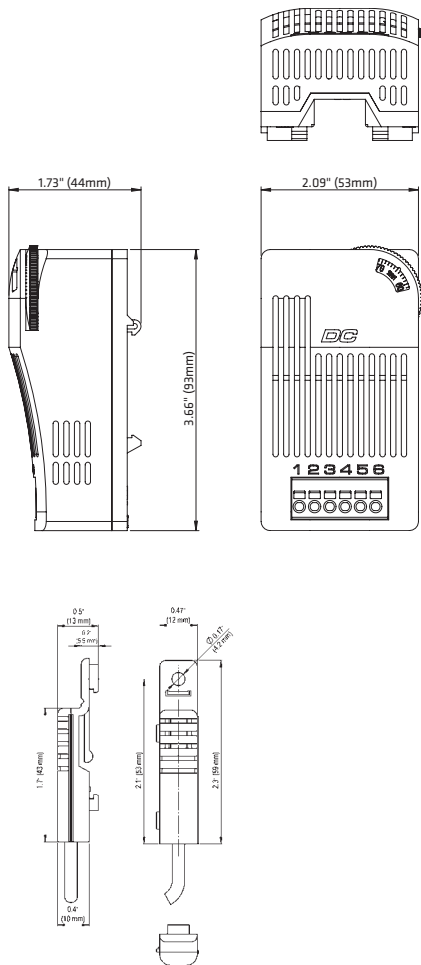
The electronic thermostat with integrated switch module is used to control DC powered devices with high capacities in control and switch cabinets. Heaters, coolers, filter fans or signal devices can directly be controlled via an internal electronic circuit. The external sensor can be positioned freely anywhere in the control cabinet for precise temperature measurements. Additionally, this thermostat is available in versions that not only measure temperature via the external sensor, but also the relative humidity.



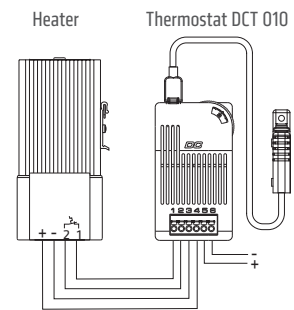
TECHNICAL DATA

Switching difference (temperature)	3 K (± 1 K tolerance) at +77 °F (+25 °C), 50 % RH
Reaction time	approx. 5 sec.
External sensor	cable 2 m with snap in connector (included in the delivery)
Contact type	contact maker NO (MOSFET) or contact breaker NC (MOSFET)
Service life	> 100,000 cycles
Operating voltage	DC 20 to 56 V
Optical indicator	LED
Connection	6-pole terminal: stranded wire ¹ AWG 16 (1.5 mm ²); max. AWG 12 (2.5 mm ²)
Mounting	clip for 35 mm DIN rail, EN 60715
Housing	plastic, UL 94V-0, grey (bicolor)
Dimensions	3.7 x 2.1 x 1.7" (93 x 53 x 44 mm)
Weight	approx. 4.2 oz. (120 g) incl. sensor
Mounting position	vertical
Storage temperature	-40 to +176 °F (-40 to +80 °C)
Operating / Storage humidity	max. 90 % RH (non-condensing)
Protection type	IP20
Approvals	UL File No. E164102, VDE, EAC
Note	other versions (e.g. setting ranges and °C) on request

¹ When connecting with stranded wires, wire end ferrules must be used.



Wiring example



Part No.	Max. switching capacity (relay output)	Operating temperature	Primary switching function setting range temperature	Secondary switching function ² humidity setting	Contact (primary)
01011.0-31	DC 13 A	-22 °F to +122 °F (-30 °C to +50 °C)	14 to 122 °F	-	Contact maker (NO)
01011.0-32	DC 11 A	-22 °F to +140 °F (-30 °C to +60 °C)	32 to 140 °F	-	Contact maker (NO)
01011.0-61	DC 13 A	-22 °F to +122 °F (-30 °C to +50 °C)	14 to 122 °F	65 % RH pre-set	Contact breaker (NC)
01011.0-62	DC 11 A	-22 °F to +140 °F (-30 °C to +60 °C)	32 to 140 °F	65 % RH pre-set	Contact breaker (NC)

² Versions with secondary switching function can also register the humidity and therefore offer an additional protection for electronics. Switching difference: 4 % RH (± 1 % tolerance) at +77 °F (+25 °C), 50 % RH.