Compact Thumbwheel Thermostats





011159-00 and 011150-00



011169-00 and 011160-00

Applications

Normally Closed (N.C.)

Normally Closed thermostats have a red adjustment thumbwheel and contacts that open when the air temperature rises above the setpoint. Uses may include regulating heaters or switching signal devices when temperature falls below the setpoint value.

Normally Open (N.O.)

Normally Open thermostats have a blue adjustment thumbwheel and contacts that close when the air temperature rises above the setpoint. Uses may include regulating cooling devices (heat exchangers, filter fans, or vortex coolers, etc) or for include switching signal devices when temperature rises above the maximum setpoint.

Features

- Compact design
- Adjustable thumbwheel setting
- DIN rail mounting
- SPST regulator with small hysteresis
- Housing design ensures optimized circulation around sensor element



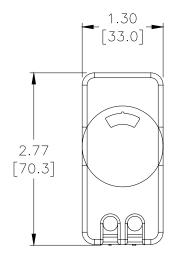
Compact Thumbwheel Thermostats Specifications				
Switching Difference	7°F [4K]			
Switching Tolerance	±5.4°F [±3K]			
Sensor Element	Thermostatic bimetal			
Contact Type	Snap-action contact			
Contact Resistance	<10 mΩ			
Service Life	>100,000 cycles			
Max. Switching Capacity	15A resistive / 2A inductive @ 120 VAC 10A resistive / 2A inductive @ 250 VAC DC 30W (24-72 VDC)			
Max. Inrush Current	AC 16A for 10 sec.			
Minimum Load	20mA (all voltages)			
Connection	2-pole terminal,1 Nm max. clamping torque 14 AWG [2.5mm] max. solid wire or stranded wire with wire end ferrule			
Housing	Plastic, UL 94V-0, light gray			
Mounting	Clip for 35mm DIN rail, EN 60715			
Mounting Position	Vertical			
Operating / StorageTemperature	-49 to 176°F [-45 to 80°C]			
Weight	1.8 oz [50 g]			
Protection Type	IP20			
Approvals	Recognized File No. E164102, CE, VDE, EAC, RoHS 2 compliant			

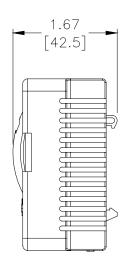
Compact Thumbwheel Thermostats						
Part Number	Price	Contact	Setting Range			
<u>011159-00</u>	\$28.50	N C	32 to 140°F			
011150-00 \$28.50 N.C. 0 to 60°C						
<u>011169-00</u>	\$28.50	N.O.	32 to 140°F			
011160-00 \$28.50 N.O. 0 to 60°C						

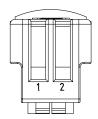
Compact Thumbwheel Thermostats



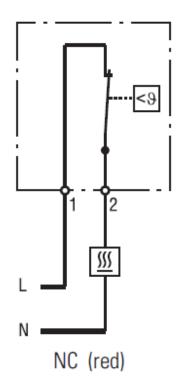
Dimensions

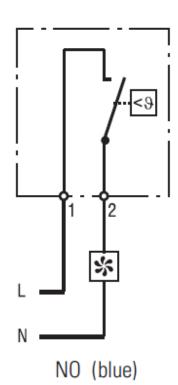






Wiring Diagram





Adjustable Thermostats





<u>111000-00, 111000-01, 111000-02,</u> <u>111009-00,</u> and <u>111009-01</u>



<u>111010-00</u>, <u>111010-01</u>, <u>111010-02</u>, <u>111019-00</u>, and <u>111019-01</u>

Applications

Normally Closed (N.C.)

Normally Closed adjustable thermostats have a red adjustment dial and contacts that open when the air temperature rises above the setpoint. Uses may include regulating heaters or switching signal devices when temperature falls below the setpoint value.

Normally Open (N.O.)

Normally Open adjustable thermostats have a blue adjustment dial and contacts that close when the air temperature rises above the setpoint. Uses may include regulating cooling devices (heat exchangers, filter fans vortex coolers, etc), or switching signal devices when temperature rises above the setpoint value.

Features

- Compact design
- Wide adjustment range
- Color coded temperature dials
- DIN rail mounting
- Push-in terminals for tool-free installation
- For use up to 16,400 ft. [5000 m] altitude





General Specifications			
Switching Difference	12.6°F [7K]		
Switching Tolerance	±7°F [±4K]		
Sensor Element	Thermostatic bimetal		
Contact Type	Snap-action contact		
Service Life	>100,000 cycles		
Max. Inrush Current	AC 16A for 10 sec.		
Max. Operating Voltage	250 VAC		
Connection	2-pole terminal, push-in terminal 14 AWG [2.5mm] max. solid/stranded wire		
Housing	Plastic, UL 94V-0, light gray		
Mounting	Clip for 35mm DIN rail, EN 60715		
Mounting Position	Variable		
Operating / Storage Temperature	-49 to 176°F [-45 to 80°C]		
Weight	0.09 lb [40 g]		
Protection Type	IP20		
Approvals	CE, CSA, VDE, EAC, UL Recognized File No. E164102; RoHS 2 compliant		
Note: When using stranded wire, wire-end ferrules (square or trapezoid crimp) must be used.			

Adjustable Thermostats						
Part Number	Price	Contact	Setting Range	Max. Switching Capacity	Drawing Link	
<u>111000-00</u>	\$21.00		0 to 60°C	15A resistive / 2A inductive at 120 VAC, 10A	<u>PDF</u>	
<u>111000-01</u>	\$21.00		-10 to 50°C	resistive / 2A inductive at 250 VAC, 30W DC	<u>PDF</u>	
<u>111000-02</u>	\$21.00	N.C.	20 to 80°C	3A resistive / 2A inductive at 120 VAC, 3A resistive / 2A inductive at 250 VAC, 30W DC	PDF	
111009-00	\$21.00		32 to 140°F	15A resistive / 2A inductive at 120 VAC, 10A resistive / 2A inductive at 250 VAC, 30W DC	<u>PDF</u>	
<u>111009-01</u>	\$21.00		14 to 122°F		<u>PDF</u>	
<u>111010-00</u>	\$21.00		0 to 60°C		<u>PDF</u>	
<u>111010-01</u>	\$21.00		-10 to 50°C		<u>PDF</u>	
<u>111010-02</u>	\$21.00	N.O.	20 to 80°C	3A resistive / 2A inductive at 120 VAC, 3A resistive / 2A inductive at 250 VAC, 30W DC	PDF	
<u>111019-00</u>	\$21.00		32 to 140°F	15A resistive / 2A inductive at 120 VAC, 10A	<u>PDF</u>	
<u>111019-01</u>	\$21.00		14 to 122°F	resistive / 2A inductive at 250 VAC, 30W DC	<u>PDF</u>	

Dual Adjustable Thermostats





011720-01



011760-00

Applications

This unit houses two separate thermostats, allowing independent control of heating, cooling or other equipment.

Normally Closed (N.C.)

Normally Closed (N.C.) thermostats have a red adjustment dial and contacts that open when the air temperature rises above the setpoint. N.C. thermostats are used for regulating heaters or for switching signal devices when the temperature falls below the s etpoint temperature.

Normally Open (N.O.)

Normally Open (N.O.) thermostats have a blue adjustment dial and contacts that close when the air temperature rises above the setpoint. N.O. thermostats are used for regulating cooling devices (heat exchangers, filter fans, vortex coolers, etc) or for switching signal devices when the temperature rises above the setpoint temperature.

Features

- N.C. and N.O. in one unit
- · Compact design
- Separate adjustable temperatures
- Color coded temperature dials
- DIN rail mounting



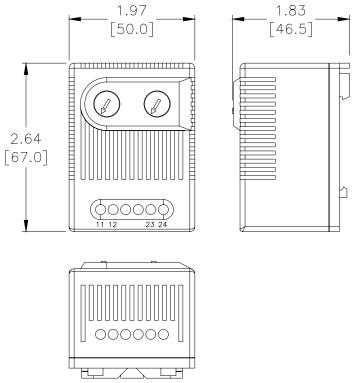
Dual Adjustable Thermostats Specifications				
Switching Difference	12.6°F [7K]			
Switching Tolerance	±7°F [± 4K]			
Sensor Element	Thermostatic bimetal			
Contact Type	Snap-action contact			
Contact Resistance	<10 mΩ			
Service Life	>100,000 cycles			
Max. Switching Capacity	NC: 10A resistive / 2A inductive @ 250VAC NO: 5A resistive / 2A inductive @ 250VAC 15 resistive / 2A inductive @ 120VAC DC 30W (24-72 VDC)			
Max. Inrush Current	AC 16A for 10 sec.			
Minimum Load	20mA (all voltages)			
Connection	4-pole terminal, 0.5 Nm max. clamping torque; 14 AWG [2.5mm] max. solid wire 16 AWG [1.5 mm2] max. stranded wire with wire end ferrule			
Housing	Plastic, UL 94V-0, light gray			
Mounting	Clip for 35mm DIN rail, EN 60715			
Mounting Position	Vertical			
Operating / StorageTemperature	-49 to 176°F [-45 to 80°C]			
Weight	0.2 lb [90 g]			
Protection Type	IP20			
Approvals	CE, CSA, VDE, EAC, UL Recognized File No. E164102, RoHS 2 compliant			

Dual Adjustable Thermostats						
Part Number	Price	Left Contact	Setting Range	Right Contact	Setting Range	
011720-00	\$41.50		0 to 60°C		0 to 60°C	
<u>011720-01</u>	\$41.50	NO	32 to 140°F	ı	32 to 140°F	
<u>011750-00</u>	\$41.50	N.C.	-10 to 50°C	N.O.	20 to 80°C	
<u>011750-01</u>	\$41.50		14 to 122°F	IN.O.	68 to 176°F	
<u>011760-00</u>	\$41.50	N.O.	0 to 60°C		0 to 60°C	
<u>011760-01</u>	\$41.50	N.O.	32 to 140°F		32 to 140°F	

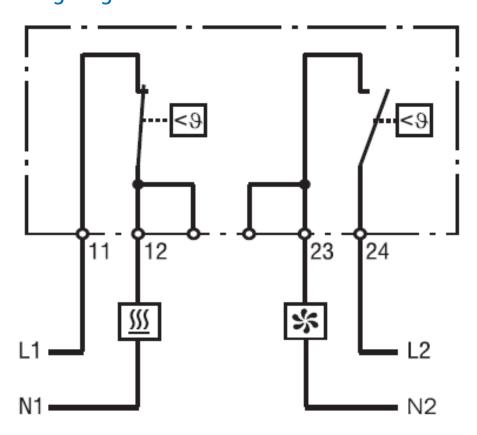
Dual Adjustable Thermostats



Dimensions



Wiring Diagram



Smart Sensor For Temperature and Humidity





014202-00

Applications

The compact Smart Sensor electronically measures temperature and humidity and converts measured data into a standardized analog 4 to 20 mA signal or an IO-Link protocol signal. The converted value signals can be used and processed by a control monitoring unit, e.g., a PLC control (*IO-Link devices require an* IO-Link Master to communicate with a PLC). The Smart Sensor is suitable for use in a wide variety of applications and can be used even in harsh environmental conditions, such as wind power.

Features

- · Analog/I/O-Link digital interface
- Compact size
- DIN rail and/or screw mount
- High accuracy
- Quick connection (M12 plug-in connector)
- Wide temperature and humidity range
- Various application areas (IEC 61010-1/DIN EN 61010-1)

Listings

• UL Recognized File E500143



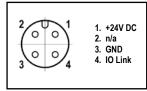




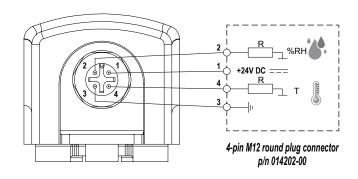


Smart Sensors				
Part Number Price Output Drawing Link				
014202-00	\$157.00	4-20 mA, 2 channel	PDF	
014112-00	\$157.00	I/O-Link	PDF	

General Specifications				
Operating Voltage	24 VDC			
Temperature Measuring Range	-40 to 140°F [-40 to 60°C] ±1 K tolerance			
Humidity Measuring Range	0 to 100 % RH ±4 % RH tolerance			
Max. Reaction Time	3 minutes.			
Load Resistance (External)	≤ 500 Ω			
Max. Power Consumption	1.8 W (typically 0.4 W)			
Connection	M12 round plug connector, IEC 61076-2-101, 4-pin, A-coded, shielded			
Electrical Protection	Reverse-polarity, short circuit, overvoltage protection			
Mounting	Clip for 35mm DIN rail, EN 60715 and screw mount (M5, not included)			
Housing	Plastic, UL94 V-0, light gray			
Dimensions	5.5 x 1.6 x 1.5 in [140 x 40 x 38 mm]			
Weight	Approx. 1.8 oz. [50g]			
Mounting Position	Vertical (connection on top)			
Operating Temperature	-40 to 158°F [-40 to 70°C]			
Storage Temperature	-40 to 185°F [-40 to 85°C]			
Operating / Storage Humidity	Max. 90% RH (non-condensing)			
Protection Class	III (SELV)			
Protection Type	IP20			
Approvals	EAC, CE, VDE, UL File Recognized File E500143), (acc. to IEC 61010-1 / DIN EN 61010-1)			



4-pin M12 round plug connector p/n 014112-00



Mechanical Thermostats





Applications

The STEGO mechanical thermostat is used for controlling heating and cooling equipment, filter fans or signal devices where a higher° of sensing accuracy is required. An integrated resistor (RF) can be connected to improve the switch temperature difference (see Option note). The thermostat registers the surrounding air and can switch both inductive and resistive loads via snap-action contact.

Features

- Compact design
- Adjustable setting dial
- DIN rail mounting
- · High switching capacity



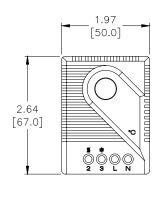
Mechanical Thermostats					
Part Number	Price	Operating* Voltage	Setting Range		
011700-00	\$42.00	230VAC	5 to 60°C		
<u>011700-01</u>	\$42.00	230VAC	40 to 140°F		
<u>011709-00</u>	\$42.00	120VAC	40 to 140°F		
<u>011709-01</u>	\$42.00	IZUVAC	5 to 60°C		

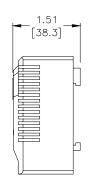
Note: *Voltage only needs to be specified if the optional use of the RF register is desired.

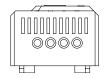
Mechanical Thermostats Specifications				
Switching Difference	9°F [5K]			
Switching Tolerance	-5.4/+3.6°F [-3/+2°K]			
Sensor Element	Thermostatic bimetal			
Contact Type	SPDT / change-over contact			
Contact Resistance	<10 mΩ			
Service Life	>100,000 cycles			
Max. Switching Capacity, NC	10A resistive / 4A inductive @ 120VAC 10A resistive / 4A inductive @ 250VAC DC 30W (24-72 VDC)			
Max. Switching Capacity, NO	5A resistive / 2A inductive @ 120VAC; 5A resistive / 2A inductive @ 250VAC; DC 30W (24-72 VDC)			
Connection	4-pole terminal, 0.5 Nm max. wire or clamping torque 14 AWG [2.5 mm²] max. solid wire or stranded wire with wire end ferrule			
Housing	Plastic, UL 94V-0, light gray			
Mounting	Clip for 35mm DIN rail, EN 60715			
Mounting Position	Vertical			
Operating / StorageTemperature	-49 to 149°F [-45 to 65°C]			
Weight	1.8 oz [50 g]			
Protection Type	IP20			
Approvals	Recognized File No. E164102, CE, EAC, RoHS 2 compliant			
Note: If the Normally Closed contest is	and the suiteb temperature difference and he reduced			

Note: If the Normally Closed contact is used, the switch temperature difference could be reduced by connecting terminal "N" (RF heating resistor). It causes the thermal feedback, which is subject to surrounding conditions and thus has to be determined for each application.

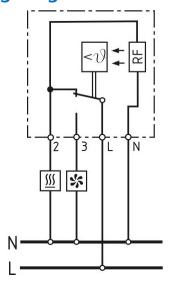
Dimensions







Wiring Diagram



Electronic Thermostats





011900-00

Applications

- Used for regulating high-performance DC 24V equipment
- Heating or cooling equipment, and signal devices can be switched via the SPDT (change-over) contact

Features

- Compact design
- · Adjustable setting dial
- DIN rail mounting
- Low hysteresis
- Wide adjustment range



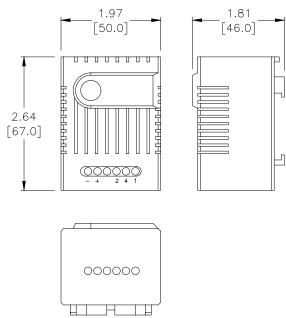
				Electronic The	ermostats specifications	
Electronic Thermostat			Switching Difference	5.4°F [3K]		
		Operating	_		Switching Tolerance	±1.8°F [±1K]
Part Number	Price	Voltage	Setting Range		Sensor Element	PTC
<u>011900-00</u>	\$60.00	DC 24V (DC	0 to 60°C]	Contact Type	SPDT / change-over contact
<u>011900-01</u>	\$60.00	20-28V)	32 to 140°F		Service Life	>100,000 cycles
				_	Max. Switching Capacity	16A @ DC 28V
					Max. Inrush Current	DC 16A
					Connection	5-pole terminal, 0.5 Nm max. clamping torque 14 AWG [2.5 mm²] max. solid wire 16 AWG [1.5 mm²] max. stranded wire with wire end ferrule
					Housing	Plastic, UL 94V-0, light gray
					Mounting	Clip for 35mm DIN rail, EN 60715
					Mounting Position	Vertical
					Operating / StorageTemperature	14 to 140°F [-10 to 60°C] / -49 to 176°F [-45 to 80°C]
					Operating / Storage Humidity	Max 95% RH (non-condensing)

Weight

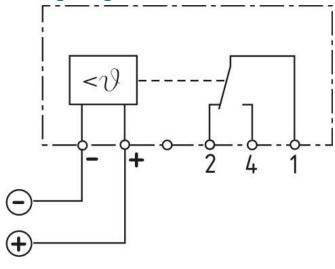
Approvals

Protection Type

Dimensions



Wiring Diagram



2.4 oz [70 g]

IP20
CE, EAC, RoHS 2 compliant