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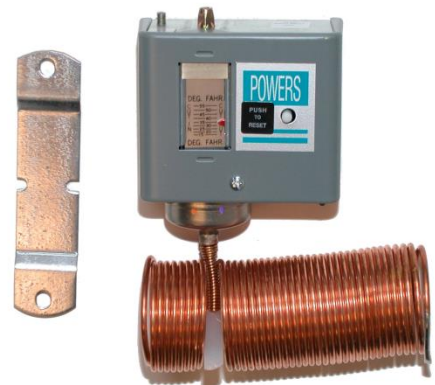
POWERS® CONTROLS

Mechanical Line Voltage Controls Quick Reference Guide

Thermostats

Airflow Switches

Pressure-Electric Switches



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this reference guide

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Room Temperature Line Voltage Mechanical Thermostats

Features

- Single set point dial
- Exposed bimetal thermometer
- Temp. range from 50-90°F (10 -30°C)
- High and low limit stops
- Standard or heavy duty models
- Dual Fahrenheit/Celsius scale plate
- UL/CSA approved



Applications

The 134 series Line Voltage Room Thermostat is an "On/Off" room thermostat used in heating and cooling applications. These units control heating and cooling HVAC equipment or year-round air conditioning units in commercial or residential installations.

Thermostats are available with either SPST or SPDT contact action rated with motor ratings up to 8A FLA @ 240 Vac. Click on the following link to download the technical instruction document.

[Room Temp Line Voltage Thermostat Technical Instructions](#)

Low Temperature Detection Line Voltage Mechanical Thermostats

Features

- Compact and durable construction
- Low temperature ranges suited for operation around freezing temperatures
- Manual or automatic reset models
- Electroplated copper capillary tube for long term sensitivity and durability
- SPDT or DPST models
- Universal mounting bracket included
- UL/CSA approved



Applications

The 134 series remote bulb thermostats are ideally suited for detecting potential freeze-up conditions of heating coils, cooling coils, liquid heating pipes and similar applications.

The Low Temp Detection Cut-out & Alarm Thermostat has a DPST main switch used to stop the supply fan motor when temp at the sensing element falls below the set point. Aux switch provides alarm. The main contacts have motor ratings to 8A @ 240 Vac. Click on the following link to download the technical instruction document.

[Low Temp Detect Cut-out Alarm Thermostat Technical Instructions](#)

The Low Temperature Detection Thermostat is a remote bulb instrument with a SPDT switch that closes and opens a circuit in both directions. The switch is rated to 240 Vac at 8A FLA motor load. Click on the following link to download the technical instruction document.

[Low Temp Detect Remote Bulb Thermostat Technical Instructions](#)

Mid Temperature Range Line Voltage Mechanical Thermostats

Features

- Temperature sensitive, liquid-filled element
- SPDT snap-acting switches
- Temp. Range from 30 to 110°F (-1 to 43°C)
- Enclosed switches suitable for low or line voltage power switching
- Gray baked enamel case
- UL/CSA approved



Applications

The 141 series Line Voltage Remote Bulb Thermostat is a two-position electric line voltage thermostat with remote bulb. This device has a SPDT switch with motor ratings to 8A FLA @ 240 Vac.

This thermostat is used for control in heating and cooling applications. Typical applications include summer-winter change when two-position "On/Off" control is acceptable. Click on the following link to download the technical instruction document.

[Mid Temp Range Remote Bulb Thermostat Technical Instructions](#)

High Temperature Limit Control Line Voltage Mechanical Thermostats

Features

- Temp sensitive, liquid-filled element
- SPST or SPDT snap-acting switches
- Temperature Ranges to 240°F (110°C)
- Externally adjustable set point dial
- Gray baked enamel case
- UL/CSA approved



Applications

These 141 series thermostats are typically used as high limit controls when a "lock-out" type control is desired or required by local specification or building code.

The Surface Mounted Thermostat provides a SPDT electrical switch and is designed especially for mounting on pipes. Click on the following link to download the technical instruction document.

[High Temp Surface Mount Thermostat Technical Instructions](#)

The Duct Mount High Limit Control Thermostat has a rigid bulb, bi-metal and tube design. The thermostat is often wired to shut down A/C or ventilating fans when the duct air temp becomes excessive. Click on the following link to download technical instruction.

[High Limit Control Duct Mount Thermostat Technical Instructions](#)

The Line Voltage Remote Bulb Thermostat is a two-position electric line voltage thermostat with remote bulb on a six foot long capillary having a SPDT switch with motor ratings to 8A @ 240 Vac. Click on the following link to download the technical instruction document.

[High Temp Remote Bulb Thermostat Technical Instructions](#)

Differential Static Pressure Line Voltage Airflow Switch

Features

- Available in ranges:
 - 0.05" to 1.0" WC (12.5 to 249 Pa)
 - 1 to 12" WC (249 to 2988 Pa)
- Available with auto reset
- Can be used in multiple applications
 - Proof of air flow
 - High flow limit cut out
 - Dirty air filter indication
- UL/CSA approved



Applications

This 141 series Airflow Switch senses static differential pressure and the diaphragm operated snap switches actuate electrical circuits. Auto reset and manual reset models are available.

These Air Flow Switches are available with either SPST or SPDT switches with non inductive ratings up to 15A from 120 to 277 Vac. Click on the following link to download technical instruction.

[Differential Pressure Airflow Switch Technical Instructions](#)

Pneumatic Control System Differential Pressure-Electric Switch

Features

- DPST or SPDT snap acting switches
- Adjustable or fixed differential models
- Long life, heavy duty switch contacts
- 2-30 psi pressure control range
- Not position sensitive
- Mounting bracket included
- UL/CSA approved



Applications

The 134 series Pressure Electric Switches actuates electrical circuits from pneumatic control signals. Typical applications include the control of air compressors, fans and resistance heating elements.

The adjustable differential Pressure Electric Switches have normally open or normally closed models for application flexibility. DPST snap acting switch. The main contacts have motor ratings to 8A @ 240 Vac. Click on the following link to download technical instruction.

[Adjustable Differential Pressure-Electric Switch Technical Instructions](#)

This fixed differential Pressure Electric Switch has a SPDT snap acting switch rated to 240 Vac at 8A FLA motor load. Click on the following link to download the technical instruction document.

[Fixed Differential Pressure-Electric Switch Technical Instructions](#)

Line Voltage Mechanical Humidistat

Features

- Single setpoint dial
- Measurement range from 0 to 70% Relative Humidity
- Humidification OFF setting
- Dehumidification OFF setting
- SPDT snap-acting contacts in dust-protected enclosure
- UL/CSA approved



Applications

The 134 series Line Voltage Humidistat is used to control humidifying and/or dehumidifying equipment in residential, commercial, and industrial applications.

The 134- Humidistat has SPDT contact action rated up to 3A FLA @ 240 Vac. Click on the following link to download the technical instruction document.

[Line Voltage Humidistat Technical Instructions](#)

Product Part Numbers

Part Number	Product Description
134-1084	Room Thermostat, 1.8°F differential
134-1085	Room Thermostat, 3.0°F differential
134-1086	Room Thermostat, Concealed, 1.8°F differential
134-1504	Low Temp Detection Thermostat, DPST
134-1510	Low Temp Detection Thermostat, Auto Reset
134-1511	Low Temp Detection Thermostat, Manual Reset
141-0520	Mid Temp Remote Bulb Thermostat
141-0521	High Temp Limit Remote Bulb Thermostat
141-0522	High Temp Surface Mount Thermostat
141-0530	High Temp Duct Mount Thermostat
141-0518	Airflow Switch, SPDT, Auto Reset, 1" to 12" WC
141-0575	Airflow Switch, SPST, Manual Reset, 1" to 12" WC
141-0574	Airflow Switch, SPDT, Auto Reset, 0.05" to 1" WC
134-1450	Pressure Electric Switch, N-O, DPST, close on rise
134-1451	Pressure Electric Switch, N-C, DPST, open on rise
134-1460	Pressure Electric Switch, SPDT, Fixed Differential
134-1861	Line Voltage Humidistat, SPDT, 120/240V



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