

POWERS® Pneumatic Controls

Thermostats

Controllers and Transmitters

Mechanical Line Voltage Controls

Relays and Three-way Valve

Damper Actuators

Control Cabinets















Pneumatic Thermostats





The 192 S Thermostats are proportional single output, single setpoint, 1-pipe (low air capacity) or

2-pipe (high air capacity) sensor controllers. Each thermostat includes a wall mounting plate for installation in a variety of rough-in terminal boxes. A sensitive bimetal responds to temperature change to modulate control air through a flapper nozzle. One setpoint dial is provided. Air connections are made with 5/32" (4 mm) O.D. plastic tubing, directly to the thermostat chassis for retrofit applications or with plug-in adapter accessory that slide into the wall mounting plate. Part Numbers: 192-200, 192-201, 192-202, 192-203, 192-221, 192-222, 192-223.

Technical Instructions

Installation Instructions



Powerstar® Heating/Cooling Pneumatic Room Thermostat 192 HC

The TH 192 HC thermostats are proportional single output, dual setpoint, 2-pipe (high air capacity) sensor controllers. Sensitive bimetals respond to temperature change to modulate control air through a flapper nozzle. When the supply air pressure changes from 18 to 25 psi (124 to 172 kPa), the thermostat automatically switches from the cooling to the heating setpoint respectively. Air connections are made with 5/32" (4 mm) O.D. plastic tubing, directly to the thermostat chassis for retrofit applications or with plug-in adapters which slide into the wall mounting plate.

Part Numbers: 192-207, 192-208, 192-209, 192-210, 192-227, 192-228, 192-229, 192-230

Technical Instructions

Installation Instructions



Powerstar® Day/Night/Vent Pneumatic Room Thermostat 192 DN/DNV

The TH 192 DN and DNV thermostats are proportional single output, dual setpoint, 2-pipe or 3-pipe (high air capacity) sensor controllers. Sensitive bimetals respond to temperature change to modulate control air through a flapper nozzle. When the supply air pressure changes from 18 to 25 psi (124 to 172 kPa), the thermostat automatically switches from the day to the night setpoint respectively. Air connections are made with 5/32" (4 mm) O.D. plastic tubing, directly to the thermostat chassis for retrofit applications or with plug-in adapters which slide into the wall mounting plate.

Part Numbers: 192-204, 192-205, 192-206, 192-224, 192-225, 192-226

Technical Instructions

Installation Instructions



Powerstar® Free Energy Band Heating/Cooling Pneumatic Room Thermostat 193 HC

The TH 193 HC thermostats are proportional dual output, dual setpoint, two-pipe (dual one-pipe, low air capacity) or three-pipe (dual two-pipe, high air capacity) sensor controllers. Sensitive bimetals respond to temperature changes to modulate control air through a flapper nozzle. As the heating load decreases due to internal heat gains, a dead band of control minimizes energy consumption while the setpoint changes from 72°F (22°C) heating mode to 78°F (26°C) cooling mode. Two setpoint dials allow adjustment of the dead band 4°F (2°C) minimum. Air connections are made with 5/32-inch (4 mm) O.D. plastic tubing, directly to the thermostat chassis for retrofit applications or with plug-in adapters which slide into the wall mounting plate.

Part Numbers: 193-211, 193-212, 193-213, 193-214, 193-215, 193-216, 193-217, 193-218, 193-235

Technical Instructions

Installation Instructions



RETROLINE® Powerstar® Retrostat Pneumatic Room Thermostats "192-194 Retrostats"

The Powerstar™ RETROLINE™ Retrostat Pneumatic Room Thermostat converts most existing pneumatic room thermostats to a Powerstar 192/194 direct or reverse acting, 2-pipe, single or dual setpoint unit. Day/Night or Heat/Cool Retrostat is factory calibrated to match the appropriate changeover pressure of the competitive thermostat.

Part Numbers: 192-840, 192-841, 195-850, 192-851

Installation Instructions



Powerstar® 832 D Room Thermostat

Powers D Room Thermostat is a gradual-acting, pneumatic instrument recommended for room temperature control in heating and air conditioning applications. Among the outstanding features of the D thermostat are its rapid response to temperature change and its unique design which prevents a constant waste of air. Other features include a wide range of adjustment, noncorrosive parts, ease of calibration and quiet operation. These factors ensure long, dependable life and maintenance-free operation.

Part Numbers: 832-0120, 832-0490, 832-0500, 832-1260

Technical Instructions

Installation Instructions



Limitem® 356 and 357 Thermostats

The 356 LIMITEM™ Rigid Bulb Thermostat is a pneumatically operated, duct-mounted thermostat, which is available in either direct or reverse acting in a variety of ranges. The TH 357 LIMITEM™ is a gradual-direct acting thermostat for air temperature control. This pneumatically operated instrument senses a temperature and passes on a pneumatic signal whose pressure is proportional to the temperature sensed. The sensing element is liquid-filled, and is available in remote and averaging bulb styles.

Part Numbers: 356-0012, 356-0013, 356-0750, 356-1005, 356-1006, 357-0001, 357-0003, 357-0004

<u>Technical</u>		<u>Technical</u>	
<u>Instructions</u>	<u>Installation</u>	<u>Instructions</u>	<u>Installation</u>
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Pneumatic Thermostat Accessories

Proven to provide fast response and highly accurate temperature control, Pneumatic Thermostats are supported by a wide range of mounting, configuration and calibration accessories

The document below provides a listing of available accessories.

Technical Instructions



Powerstar™ Pneumatic Thermostat Covers

These covers are designed for new thermostat installation or for replacement of existing thermostat covers.

The document below specifies the various thermostat cover models available with concealed or exposed setpoint adjustment, room temperature indication and setpoint indications. Available in beige or white plastic and metal options.

Part Numbers: 192-250, 192-250W, 192-252, 192-252W, 192-254, 192-254W, 192-256, 192-256W, 192-257, 192-257W, 192-258, 192-260, 192-260W, 192-262, 192-262W, 192-264, 192-265, 192-265W, 192-266, 192-266W, 192-267, 192-268, 192-269, 192-270, 192-271, 192-352, 192-354, 192-356, 192-357, 192-362, 192-364, 192-366, 856-036, 856-044, 856-046

Technical Instructions

Related Links

<u>Technical Bulletin: Powers Controls™ Tool Kit for Thermostat Calibration</u>
<u>Technical Instructions: Powers Controls™ Restrictors</u>

Pneumatic Controllers and Transmitters



Powers® Controls 195 Single Input Receiver-Controller

The RC 195 Single Input Receiver-Controller is a pneumatic instrument which receives one pneumatic input, either direct acting (DA) or reverse acting (RA). It produces a pneumatic control signal based on the net pneumatic input and the mechanical settings of the setpoint and percent proportional band.

Part Number: 195-0011

Technical Instructions

Installation Instructions



Powers® Controls 195 Multiple Input Receiver-Controller

The Powers® 195 Multiple Input Receiver-Controller is a pneumatic controller that receives up to three pneumatic inputs and produces a pneumatic output signal based on the net pneumatic input and the setpoint, percent proportional band, and authority settings. The controller can be easily changed from direct to reverse acting.

Part Numbers: 195-0001, 195-0003

Technical Instructions

Installation Instructions



Powers® 184 Temperature Transmitters

The Powers® 184 Temperature Transmitters are direct acting, one-pipe instruments that sense temperature and transmit a proportional 3 to 15 psi (21 to 103 kPa) pneumatic signal to a remotely located receiver gauge and/or receiver controller. Temperature Transmitters operate on the force-balance principle, using internal feedback for excellent linearity and accuracy.

Part Numbers: 184-0001, 184-0002, 184-0003, 184-0004, 184-0005, 184-0006, 184-0014, 184-0018, 184-0028, 184-0034, 184-0036, 184-0041, 184-0048, 184-0340

Technical Instructions

Installation Instructions





HT 186 Humidity Transmitter

The HT 186 Humidity Transmitter is a one-pipe, pneumatic instrument. It senses space humidity and transmits a proportional 3 to 15 psi (20.7 to 103 kPa) output pressure signal to a remote receiver gauge calibrated to read percent relative humidity. The transmitter output may also be sent to a receiver-controller for further control of an air conditioning or process control system.

Part Numbers: 186-0043, 186-0089

Technical Instructions

Pneumatic Controllers and Transmitters Accessories



Powers® Controls 195 Single Input Receiver-Controller Accessories

Click the link below for Powers Controls™ 195 Single Input Receiver-Controller

Technical Instructions



Powers® Controls 195 Multiple Input Receiver-Controller Accessories

Click the link below for Powers Controls $^{\mbox{\tiny TM}}$ 195 Multiple Input Receiver Controller Accessories.

Technical Instructions



Powers® 184 Temperature Transmitters Accessories

Click the link below for Powers 184 Temperature Transmitters Accessories.

Technical Instructions



HT 186 Humidity Transmitter Accessories

Click the link below for HT 186 Humidity Transmitter Accessories.

Technical Instructions

Related Links

<u>Installation Instructions: AF 908 Air Line Filter Assembly Item</u>

<u>Installation Instructions: Copper Tubing to Poly Tubing Adapter</u> Installation Instructions: Replacement Transmitters for Honeywell

Installation Instructions: Replacement Transmitters for Johnson Controls

Technical Instructions: Lockable Thermostat Guard

Technical Instructions: Powers Controls™ Air Line Filter Assembly

Technical Instructions: Powers Controls™ RL 380 Check Valve

Powers® Mechanical Line Voltage Controls



Powers® Electric Line Voltage Mechanical Room Thermostats

The ET 134 line voltage room thermostat is a wall mounted instrument available with exposed or concealed set point adjustment. Models are available with Single-Pole, Single-Throw (SPST) or Single-Pole, Double-Throw (SPDT) contact action and for standard-duty (nominal 1/4 hp; 10 amps, non-inductive) applications. Rugged and reliable, these "non-powered" On-Off thermostats provide a proven means of control in demanding heating and cooling applications.

Part Numbers: 134-1083, 134-1084, 134-1085, 134-1086

Technical Instructions



Powers® Low Temperature Detect Line Voltage Mech. Thermostats

The Electric Low Temperature Detection Cut-out and Alarm Thermostat is a remote bulb instrument which opens an electrical circuit to stop the supply fan motor and/or closes an outside air damper when the temperature at the sensing element falls below the setting of the instrument. Simultaneously, it closes a circuit to indicate an alarm condition.

The ET 141 remote bulb thermostat incorporates a temperature-sensitive liquid-filled sensing element that actuates precision snap-acting switches through a diaphragm and linkage mechanism. The switches are Single-Pole, Double-Throw (SPDT) snap-acting type, totally enclosed, and are suitable for low or line voltage power switching.

Part Numbers: 134-1504, 134-1510, 134-1511

Technical Instructions (134-1504)

<u>Technical Instructions</u> (134-1510, 134-1511)



Powers® Mid Range Temp Line Voltage Mechanical Thermostats

The ET 141 remote bulb thermostat incorporates a temperature-sensitive liquid-filled sensing element that actuates precision snap-acting switches through a diaphragm and linkage mechanism. The switches are Single-Pole, Double-Throw (SPDT) snap-acting type, totally enclosed, and are suitable for low or line voltage power switching.

The electric surface mounted thermostat has a Single-Pole, Double-Throw (SPDT) contact mechanism and is designed especially for mounting on pipes.

Part Numbers: 141-0520, 141-0522

<u>Technical Instructions</u> (141-0520) Technical Instructions (141-0522)



Powers® High Temp Detect Line Voltage Mechanical Thermostats

The ET 141 remote bulb thermostat incorporates a temperature-sensitive liquid-filling sensing element that actuates precision snap-acting switches through a diaphragm and linkage mechanism. The switches are Single-Pole, Double-Throw (SPDT) snap-acting type, totally enclosed, and are suitable for low or line voltage power switching.

The electric surface mounted thermostat has a Single-Pole, Double-Throw (SPDT) contact mechanism and is designed especially for mounting on pipes.

The ET 141 high limit control thermostat is duct mounted and has a rigid bulb, bi-metal rod and tube construction.

Part Numbers: 141-0521, 141-0522, 141-0530

Technical Instructions (141-0521) Technical Instructions (141-0522)

Technical Instructions (141-0530)



Powers® Differential Static Pressure Line Voltage Airflow Switches

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

Part Numbers: 141-0518, 141-0574, 141-0575

Technical Instructions



Powers® Line Voltage Pressure-Electric Switches

The SW 134 Pressure Electric Switch actuates electrical circuits from pneumatic control signals. The 134 Pressure Electric Switches are heavy duty pressure-actuated, mechanical contact type switches used to open or close electrical circuits from pressure signals in pneumatic control systems.

The QBM Series Air Differential Pressure Devices use a proven sensing technology to deliver accurate and repeatable data in applications that require monitoring of differential pressure.

Part Numbers: 134-1450, 134-1451, 134-1460, QBM81-3, QBM81-5, QBM81-10

Technical Instructions (134-1450, 134-1451)

Technical Instructions (134-1460)

Technical Instructions (QBM81-X)



Powers® Line Voltage Low Temp Pneumatic Air Switch

TH 134 Pneumatic Low Temperature Detection The thermostat has an internal pneumatic switch that exhausts air from the line to a controlled device when the temperature reaches the setpoint. It requires manual reset to close the switch.

Part Numbers: 134-1700, 134-1710

Technical Instructions



Powers® Electric Line Voltage Mechanical Humidistat

The line voltage humidistat is a wall-mounted instrument with SPDT snap-acting contacts to control humidifying or dehumidifying equipment. The 134 Humidistat has a setpoint range of 0 to 70% RH as well as "OFF" dial positions for humidification and dehumidification and is suitable for residential, commercial, and industrial applications.

Part Number: 134-1861

Technical Instructions

Powers® Mechanical Line Voltage Controls Accessories



Static Pressure Sensor Probe

Click the link below for Powers™ Mechanical Line Voltage Thermostat Accessories.

Technical Instructions



Coil Clip

Click the link below for Powers™ Mechanical Line Voltage Thermostat Accessories.

Technical Instructions



Capillary Clip

Click the link below for Powers™ Mechanical Line Voltage Thermostat Accessories.

Technical Instructions



Powers® Mechanical Line Voltage Thermostat Accessories

Click the link below for Powers™ Mechanical Line Voltage Thermostat Accessories.



Technical Instructions

Related Links

Powers® 243 Series Pneumatic Relays and Three-way Valve



Powers® 243 MP Multi-Purpose Relay

The Powers RL 243 MP Multi-Purpose Relay is a pneumatic auxiliary device designed to provide a variety of pneumatic control functions for the typical control system. Applications include direct and reverse acting amplifying, signal advancing, minimum pressure relay, and lower pressure transfer. The relay operates on a force balance principal and is provided with a Powers two-valve design to assure stability and prevent unnecessary air consumption. Internal relief assembly prevents signal lock-up and assures fail-safe operation. A single spring adjustment is provided to allow setting the relay for desired operation.

Part Number: 243-0009

Technical Instructions

Installation Instructions



Powers® 243 BR Balance Retard Relay

The RL-243 Balanced Retard (BR) Relay is a pneumatic auxiliary device used to obtain special pneumatic signal outputs for use in a pneumatic control system. Standard applications include signal retarding, balancing action, and signal advancing. The relay can also be used to obtain several special control functions such as signal hesitation and pressure limiting. The relay operates on a force-balance principal and is provided with a Powers' two-valve design to assure stability and prevent unnecessary air consumption. Internal relief assembly prevents signal lock-up and assures fail-safe operation. The relay is also adaptable for flush panel mounting to facilitate manual readjustment if desired.

Part Number: 243-0010

Technical Instructions

Installation Instructions



Powers® 243 A Analog Relay

The RL 243A Analog Relay is a pneumatic auxiliary device designed to assist the engineer in obtaining specialized control action within a pneumatic control system. Applications include amplifying, summing, differential pressure, ratio control, higher pressure, and signal characterization control. The relay operates on a force balance principle and is provided with a Powers' two-valve design to assure stability and prevent unnecessary air consumption. Internal relief assembly prevents signal lock-up and assures fail-safe operation.

Part Number: 243-0011

Technical Instructions

Installation Instructions



Powers® 243 SW Switching Relay

The Powers 243 SW Switching Relay is a two-position, pilot-operated auxiliary device used for switching a common part from one pneumatic circuit to another. A mounting bracket is provided for mounting on a vertical or horizontal surface.

Part Number: 243-0001

Technical Instructions

Installation Instructions



Three-way Electro-Pneumatic (EP) Valve

These rugged and reliable general purpose air valves provide multiple voltage and style options to meet most any application need. Series 265 Electro-Pneumatic Valve is a general purpose, electrically operated, two position 3-way valve designed to control airflow. It can be used for interlock between an electrical system and a pneumatic control system.

Part Numbers: 265-1021, 265-1022, 265-1024, 265-1027, 265-1028

Technical Instructions

Installation Instructions

Powers™ Controls Pneumatic Damper Actuators



Powers® Controls No. 3 Pneumatic Damper Actuators

The Powers® Controls No. 3 Pneumatic Damper Actuator is a compact, totally enclosed, rolling diaphragm-type actuator designed for modulating or two-position actuation of dampers or air valves. This actuator has a stroke length of 2-3/8 inches (60mm) and is available in nominal spring ranges of 3 to 7 psi (21 to 50 kPa), 5 to 10 psi (35 to 69 kPa) and 8 to 13 psi (55 to 90 kPa).

Part Numbers: 331-4310, 331-4311, 331-4312, 331-4313, 331-4314, 331-4510, 331-4511, 331-4512, 331-4513, 331-4514, 331-4531, 331-4809, 331-4810, 331-4811, 331-4812, 331-4813, 331-4814, 331-4831, 332-4831

Technical Instructions

Installation Instructions



Powers® Controls No. 4 Pneumatic Damper Actuators

The Powers™ Controls No. 4 Pneumatic Damper Actuator is a totally enclosed pneumatic piston type actuator designed to operate dampers for ventilating systems, mixing box control, and other applications requiring a large effective diaphragm area and long stroke. This actuator has a stroke length of 4 inches (102mm) and is available in nominal spring ranges of 3 to 7 psi (21 to 48 kPa), 3 to 13 psi (21 to 90 kPa), 5 to 10 psi (35 to 69 kPa) and 8 to 13 psi (55 to 90 kPa).

The POWERS™ No. 4 Damper Actuator "Hesitation" model is frequently used to operate the outdoor air damper on unit ventilators. The hesitation feature enables the outdoor air damper to be synchronized with the unit valve to maintain a predetermined outdoor air requirement when the controlled zone is at the desired temperature.

Part Numbers: 331-2904, 331-2905, 331-2906, 331-2929, 331-2930, 331-2961, 331-2963, 331-2968, 331-2973, 331-2974, 331-3000, 331-3001, 331-3002, 331-3017, 331-3018, 332-2961, 332-2968, 332-2973

Technical Instructions

Installation Instructions



Powers® Controls No. 6 Pneumatic Damper Actuators

Powers® Controls No. 6 Pneumatic Damper Actuator is a heavy-duty, rolling diaphragm, spring return actuator designed to drive large dampers, centrifugal refrigeration inlet vanes, and other applications requiring a large, effective diaphragm area and long 4 inch (102mm) stroke length.

Part Numbers: 331-2793, 331-2794, 331-2856, 331-2857, 331-2858, 331-2988, 331-3011, 331-3012, 331-3013, 331-3060, 332-2856, 332-3011, 332-3060

Technical Instructions

Installation Instructions

Powers® Controls Pneumatic Damper Actuators Accessories



No. 3 Pneumatic Damper Actuators Accessories

Click the link below for No. 3 Pneumatic Damper Actuator Accessories.

Technical Instructions



No. 4 Pneumatic Damper Actuators Accessories

Click the link below for No. 4 Pneumatic Damper Actuator Accessories.

Technical Instructions



No. 6 Pneumatic Damper Actuators Accessories

Click the link below for No. 6 Pneumatic Damper Actuator Accessories.

Technical Instructions



High Force Pneumatic Damper Actuators Accessories

Click the link below for High Force Pneumatic Damper Actuator Accessories.

Technical Instructions

Related Links

<u>Applications Bulletin: Damper Actuator Sizing and Selection</u> <u>Installation Instructions: Damper Actuator Diaphragm Replacement</u>

Technical Bulletin: Instrument Air Capacities

Technical Bulletin: Maximum Thrust Ratings of Pneumatic Damper Actuators

Powers® Controls CP 567 Control Cabinets



567 Series Control Cabinet Assemblies 3.5-inch Depth

These cabinets provide a convenient central location for equipment such as power metering, small electronic controls and accessories.

These 12" $H \times 14$ " $W \times 3.5$ " D cabinets provide a smaller profile for the mounting and protection of small electronic controls or power metering devices. A convenient "windowed door" model is available to allow external viewing of internal controls and displays without opening the door.

Part Numbers: 567-551, 567-556

Technical Instructions



567 Series Control Cabinet Assemblies 6-inch Depth

These cabinets provide a convenient central location for equipment such as BAS electronic controls, metering devices and small pneumatic equipment.

The empty cabinet box can be installed at the job to permit early rough-in of conduit. Since the door and subpanel can be separated from the cabinet, controls may be mounted to the door subpanel either at the job site or at the field office and connected to the cabinet at your convenience.

Part Numbers: 567-351, 567-452, 567-453, 567-454

Technical Instructions



567 Series Control Cabinet Assemblies 9-inch Depth

These cabinets provide a convenient central location for equipment such as DDC and/or pneumatic systems using either copper or polyethylene tubing or with wired electric/electronic systems. The 9-inch nominal cabinet depth provides extra room for large items.

The empty cabinet box may be installed at the job to permit early rough-in of conduit. Since the door and subpanel can be separated from the cabinet, controls may be mounted to the door subpanel either at the job site or at the field office and connected to the cabinet at your convenience.

Part Numbers: 567-352, 567-353

Technical Instructions



567 Series Control Cabinet Components Cabinet Enclosure Only

These cabinets provide a convenient central location for equipment such as DDC and/or pneumatic systems using either copper or polyethylene tubing or with wired electric/electronic systems.

The empty panel can be installed at the job to permit early rough-in of conduit. Since the door and subpanel can be separated from the cabinet, controls may be mounted to the door subpanel either at the job site or at the field office and connected to the cabinet at your convenience.

Part Numbers: 567-371, 567-372

Technical Instructions



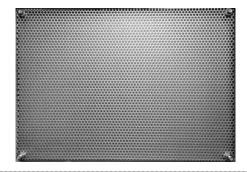
567 Series Control Cabinet Components Cabinet Doors Only

These replacement doors provide the 567 control panel assembly a long operational life as doors can be replaced to support new door mounted equipment requirements or to replace previously punched doors.

The empty panel enclosure box can be installed at the job to permit early rough-in of conduit. Since these doors can be separated from the cabinet, controls may be mounted to the door subpanel either at the job site or at the field office and connected to the cabinet at your convenience.

Part Numbers: 567-361, 567-362, 567-363

Technical Instructions

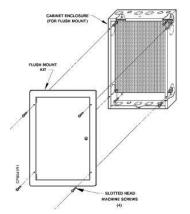


567 Series Control Cabinet Components Perforated Mounting Sub-Panels Only

The perforated mounting sub panels are designed to fit the 567 series control cabinet enclosures. They can also be used as a convenient mounting plate in other cabinets or wall mounted device applications.

Part Numbers: 567-381, 567-382, 567-383

Technical Instructions



567 Series Control Cabinet Components Flush Mount Cabinet Options

The flush mount control panel assembly is designed to have its enclosure buried into a wall cavity, showing only a flush mount door and plate for use in non-industrial areas. The flush mount kit includes the escutcheon, hinged locking door and two keys for use with the size 1 cabinet.

Part Number: 567-391

Technical Instructions



Powers® Controls CP 567 Control Cabinets Accessory

Replacement Door Lock and Key Assembly.

Part Number: 567-225

Quick Reference Guides Available



Powers® Pneumatic Thermostats

This quick reference guide is a four-page family product focus document with more information on Pneumatic Thermostats and related links.



Quick Reference Guide

Powers® Damper Actuators

This quick reference guide is a four page family product focus document with more information on Damper Actuators and related links.

Quick Reference Guide

POWERS CONTROLS*** Mechanical Line Voltage Controls Quick Reference Guide Thermotats Airllow Switches Pressure-Electric Switches Pressure-Electric Switches Airllow Switches A

Powers® Mechanical Line Voltage Controls

This quick reference guide is a four page family product focus document with more information on Mechanical Line Voltage Controls and related links.

Quick Reference Guide

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Siemens Control Cabinets

This quick reference guide is a four page family product focus document with more information on Control Cabinets and related links.

Quick Reference Guide

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