

ELECTRONIC CONTROLS

COMMERCIAL REFRIGERATION CONTROLS



For nearly a century, people have counted on PENN® to help control the things that are most important to them. Today, PENN has built on our legacy of leadership in commercial refrigeration to develop smarter and more sophisticated electronic control solutions. Each product delivers the reliability, intuitive operation and accuracy to control your refrigeration systems and protect your assets.

A421 SERIES ELECTRONIC TEMPERATURE CONTROLS SELECTION CHART



**A421 SERIES
ELECTRONIC
TEMPERATURE CONTROLS**

Order Number	Item	Lead Length
A421ABC-02C	Line voltage, Type 1 (NEMA) enclosure (1)	6-1/2 ft. (2m)
A421ABC-03C	Line voltage, Type 1 (NEMA) enclosure (1)	9-3/4 ft (3m)
A421ABC-04C	Line voltage, Type 1 (NEMA) enclosure (1)	13 ft (4m)
A421ABC-06C	Line voltage, Type 1 (NEMA) enclosure (1)	19-1/2 ft (6m)
A421ABD-02C	Line voltage, Type 1 (NEMA) enclosure, with off-cycle defrost (1)	6-1/2 ft (2m)
A421AEC-01C	Line voltage, Type 4X (NEMA) enclosure (1)	9-3/4 in (0.25m)
A421AEC-02C	Line voltage, Type 4X (NEMA) enclosure (1)	6-1/2 ft (2m)
A421AED-01C	Line voltage, Type 4X (NEMA) enclosure, with off-cycle defrost (1)	9-3/4 in (0.25m)
A421AED-02C	Line voltage, Type 4X (NEMA) enclosure, with off-cycle defrost (1)	6-1/2 ft (2m)
A421ABG-02C	Line voltage, Type 1 (NEMA) enclosure, with prewired dual power cord (1)	6-1/2 ft (2m)
A421ABJ-02C	Line voltage, Type 1 (NEMA) enclosure, with prewired piggyback power cord (1)	6-1/2 ft (2m)
A421AEJ-01C	Line voltage, Type 4x (NEMA) enclosure, with prewired piggyback power cord (1)	9-3/4 in (0.25m)
A421AEJ-02C	Line voltage, Type 4X (NEMA) enclosure, with prewired piggyback power cord (1)	6-1/2 ft (2m)
A421ABT-02C	Line voltage, Type 1 (NEMA) enclosure, with cycle timer (1)	6-1/2 ft (2m)
A421AET-01C	Line voltage, Type 4X (NEMA) enclosure, with cycle timer (1)	9-3/4 in (0.25m)
A421GBF-02C	Low voltage, Type 1 (NEMA) enclosure (2)	6-1/2 ft (2m)
A421GEF-01C	Low voltage, Type 4X (NEMA) enclosure (2)	9-3/4 in (0.25m)
A421GEF-02C	Low voltage, Type 4X (NEMA) enclosure (2)	6-1/2 ft (2m)

(1) Supply Voltage: 120 or 240 VAC Range: -40 to 212°F (-40 to 100°C)

(2) Supply Voltage: 24 VAC Range: -40 to 212°F (-40 to 100°C)



Control what's important.

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A421 SERIES ACCESSORIES



**A99 SERIES
TEMPERATURE SENSORS**

Order Number	Item	Description
A99BB-200C	Replacement Temperature Sensors	PTC Sensor with 6-1/2 ft. (2 m) Leads
A99BA-200C		PTC Sensor with 6-1/2 ft. (2 m) Shielded Leads
A99BB-25C		PTC Sensor with 9 in. (0.25 m)
BKT287-1R	Accessory Mounting Hardware	12 in. (305 mm) Long DIN Rail
BKT287-2R		36 in. (914 mm) Long DIN Rail
PLT344-1R		Two End Clamps for DIN Rail Mounting
WEL11A-601R	4-3/4 in. Immersion Well (brass thread, copper bulb)	Immersion Well for Applying Sensor in Fluid Applications



**P470 SERIES ELECTRONIC
PRESSURE CONTROLS**

P470 ELECTRONIC PRESSURE CONTROLS SELECTION CHART

Order Number	Description
P470FB-1C	Low Voltage (<30 VAC) Electronic Pressure Control with Display Supply Voltage: 24 VAC Class 2 Transformer
P470EB-1C	Line Voltage Electronic Pressure Control with Display Voltage: 120 or 208/240 VAC

Note: P470 controls do not include a transducer or wire harness. Transducer and wire harness must be purchased separately. P499 transducer must be matched to the selected pressure range.

P470 SERIES ACCESSORIES



**P599 SERIES ELECTRONIC
PRESSURE TRANSDUCERS**

Order Number	Description (includes transducer with 6-1/2 ft. (2m) wire harness)
P599RAPS101K	0 to 100 psi Pressure Transducer with 1/8 in. NPT Male Fitting
P599RCPS101K	0 to 100 psi Pressure Transducer with 1/4 in. SAE Female Fitting with Integral Schrader Valve Depressor
P599RAPS105K	0 to 500 psi Pressure Transducer with 1/8 in. NPT Male Fitting
P599RCPS105K	0 to 500 psi Pressure Transducer with 1/4 in. SAE Female Fitting with Integral Schrader Valve Depressor
P599RAPS107K	0 to 750 psi Pressure Transducer with 1/8 in. NPT Male Fitting
P599RCPS107K	0 to 750 psi Pressure Transducer with 1/4 in. SAE Female Fitting with Integral Schrader Valve Depressor

P599 Pressure Transducers (P599xxx-10xC) and wire harness (WHA-PKD3-200C) also sold separately. P599 Pressure Transducers also available with 0 to 10 VDC or 4 to 20 mA output signals for other applications.

P545 SERIES ELECTRONIC LUBE OIL CONTROLS SELECTION CHART



**P545 SERIES ELECTRONIC
LUBE OIL CONTROLS**

Order Number	Lube Oil Delay (Seconds)	P400 Switch	Wire Harness	Fits Compressor Manufactured by
P545NCB-22C ¹	120	P400AD-2	WHA-P400-100 ²	Copeland
P545NCB-25C ¹	90	P400BD-1	WHA-P400-125 ³	Bitzer
P545NCB-82C ¹	120	P400AD-1	WHA-P400-100 ²	Carlyle

1. P400 switch and wire harness included. 2. 39 in. (1m) wire harness. 3. 49 in. (1.25m) wire harness.

