

# Heating Cable

## WeatherTrace

### Freeze Protection Heat Trace Panels (cont'd.)

#### Ordering Information

To Order —  
Complete the  
Model Number  
using the Matrix  
provided.

Remote Mounted Control Accessories	PCN
RTAS Thermostat	389589
RTAS-EP Division 2 Thermostat	389597
B-100 NEMA 4X Thermostat	305365
B-121 Division 2 Thermostat	384104
THL NEMA 4X Thermostat	387014
TXL Division 2 Thermostat	387022
LCD-1 Snow Switch	389781

#### Model 240/120 VAC Single-Phase, 208/120 VAC Three-Phase 4-Wire

**FPAS** FPAS series Ambient Sensing Heat Trace Panels are designed for use in industrial Freeze Protection and Snow Melt applications. The Chromalox FPAS series offers the following standard features: NEMA 4 enclosure, Hand/Off/Auto Selector Switch, Load Energized Indicator Lamp, Main Power On Lamp, Main Contactor, and Thermal Magnetic Branch Circuit Breakers with 30mA Ground Fault Equipment Protection. Options include: NEMA 4X 304 Stainless Steel Enclosures, Main Disconnect Switch, Remote or Local Ambient Temperature Controller, Enclosure Heater, and Type Z Pressurization System. The FPAS series panels have UL and cUL Third Party Approvals.

Code	Panelboard	Available Breaker Poles	Enclosure Size HxWxD In. (cm)
12	12 Positions (100 Amp Main Rating)	(12) 1-pole breakers or (6) 2-pole Breakers	48 x 36 x 10 (122 x 92 x 25)
20	20 Positions (100 Amp Main Rating)	(20) 1-pole breakers or (10) 2-pole Breakers	48 x 36 x 10 (122 x 92 x 25)
30	30 Positions (225 Amp Main Rating)	(30) 1-pole breakers or (14) 2-pole Breakers	60 x 36 x 10 (152 x 92 x 25)
42	42 Positions (225 Amp Main Rating)	(42) 1-pole breakers or (20) 2-pole Breakers	60 x 36 x 10 (152 x 92 x 25)

Code	Line Voltage	Heater Load
1	240/120 VAC Single Phase, 3-Wire	120 VAC
2	208/120 VAC 3-Phase, 4-Wire	120 VAC
3	208/120 VAC 3-Phase, 4-Wire	208 VAC (240 VAC Cable)
4	240/120 VAC Single Phase, 3-Wire	240 VAC

Code	Enclosure Rating
1	NEMA 4 Single Door, Steel Wall-Mount Enclosure
2	NEMA 4X 304 Stainless Steel Wall-Mount Enclosure (Codes 12 & 20)
3	NEMA 4X 304 Stainless Steel Wall-Mount Enclosure (Codes 30 & 42)

#### Code Branch Circuit Breaker Selection (DO NOT EXCEED MAIN RATING)

1(*)	15 Amp 1-Pole GFI Circuit Breaker for 120 VAC load
2(*)	20 Amp 1-Pole GFI Circuit Breaker for 120 VAC load
3(*)	25 Amp 1-Pole GFI Circuit Breaker for 120 VAC load
4(*)	30 Amp 1-Pole GFI Circuit Breaker for 120 VAC load
5(*)	15 Amp 2-Pole GFI Circuit Breaker for 208/240 VAC load
6(*)	20 Amp 2-Pole GFI Circuit Breaker for 208/240 VAC load
7(*)	25 Amp 2-Pole GFI Circuit Breaker for 208/240 VAC load
8(*)	30 Amp 2-Pole GFI Circuit Breaker for 208/240 VAC load
9(*)	40 Amp 2-Pole GFI Circuit Breaker for 208/240 VAC load

#### Code Main Disconnect or Main Circuit Breaker Selection

0	None
<b>Disconnects</b>	
1	100 Amp with 65K Fault Protection (Code 12 & 20 Only)
2	250 Amp with 65K Fault Protection (Code 30 & 42 Only)
<b>Main Circuit Breakers for 240/120V line Voltage</b>	
A	80 Amp, 2 Pole Circuit Breaker
B	175 Amp, 2 Pole Circuit Breaker
C	250 Amp, 2 Pole Circuit Breaker
<b>Main Circuit Breakers for 208/120V line Voltage</b>	
F	50 Amp, 3 Pole Circuit Breaker
G	100 Amp, 3 Pole Circuit Breaker
H	150 Amp, 3 Pole Circuit Breaker
J	225 Amp, 3 Pole Circuit Breaker

#### Code Ambient Controller

0	None (See Accessories)
5	6040-R00000 1/16 DIN Controller (Panel Door Mounted)

#### Code Enclosure Heater

0	None
1	Thermostat Controlled Enclosure Heater

#### Code Pressurization Control System

0	None
1	Type Z Class 1, Division 2

FPAS- 42 2 1 1(20) 2 5 0 0 Typical Model Number

Technical Notes: (\*) Enter number of circuit breakers in parenthesis

Note: Maximum number of circuit breakers is dependent on the panelboard size (see panelboard selection) and the current capacity of the panelboard (see table below)

100 Amp Panel Board	Breaker Rating					225 Panel Board	Breaker Rating				
	Maximum Number of Breakers						Maximum Number of Breakers				
Line Voltage	15 Amp	20 Amp	25 Amp	30 Amp	40 Amp	Line Voltage	15 Amp	20 Amp	25 Amp	30 Amp	40 Amp
Code 1 (1 Pole CB)	16	12	10	8		Code 1 (1 Pole CB)	37	28	22	18	
Code 2 (1 Pole CB)	20	18	15	12		Code 2 (1 Pole CB)	42	42	33	28	
Code 3 (2 Pole CB)	10	10	8	7	5	Code 3 (2 Pole CB)	20	20	19	16	14
Code 4 (2 Pole CB)	8	6	5	4	3	Code 4 (2 Pole CB)	18	14	11	9	7