

weatherTRACE™

Freeze Protection Heat Trace Panels (cont'd.)

Ordering Information

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

Model	FPASM Featuring WeatherTrace Sentinel (120, 208, 240 Vac)									
FPASM	FPASM Series Ambient Sensing Heat Trace Panels are designed for use in industrial Freeze Protection and Snow Melt applications. The Chromalox FPASM 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. The FPASM WeatherTrace Sentinel continually monitors the supply voltage to each individual heat trace circuit. Loss of voltage or a ground fault condition triggers an automatic alarm condition to an annunciator panel which identifies the faulted zone and a Common Alarm is activated with the Re-Ring feature. 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 FPASM series panels have UL and cUL Third Party Approvals.									
Code	Panelboard	Available Breaker Poles								
12	12 Positions (100 Amp Main Rating)	(12) 1-pole breakers or (6) 2-pole Breakers								
20	20 Positions (100 Amp Main Rating)	(20) 1-pole breakers or (10) 2-pole Breakers								
30	30 Positions (225 Amp Main Rating)	(30) 1-pole breakers or (14) 2-pole Breakers								
42	42 Positions (225 Amp Main Rating)	(42) 1-pole breakers or (20) 2-pole Breakers								
Code	Line Voltage	Heater Load				Breaker Poles				
1	120 Vac	120 Vac				1				
2	208/120 Vac 3-Phase, 4-Wire	120 Vac				1				
3	208/120 Vac 3-Phase, 4-Wire	208 Vac (240 Vac Cable)				2				
4	240-120 Vac 3-Phase	240 Vac				2				
Code	Enclosure 48"H x 36"W x 10"D (Codes 12 & 20), 60"H x 36"W x 10"D (Codes 30 & 42)									
1	NEMA 4 Single Door, Steel Wall-Mount Enclosure									
2	NEMA 4X Single-Door, Stainless Steel Wall-Mount Enclosure (Codes 12 & 20)									
3	NEMA 4X Single-Door, Stainless Steel Wall-Mount Enclosure (Codes 30 & 42)									
Code	Ground Fault Branch Circuit Breaker (see table for maximum number of circuit breakers allowed)									
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 Switch Selection									
0	None									
1	100 Amp with 65k Fault Protection (Code 12 & 20 Only)									
2	250 Amp with 65k Fault Protection (Code 30 & 42 Only)									
Code	Ambient Controller									
0	None (See Accessories)									
5	1601E-11030 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									
FPASM	42	2	1	5(20)	2	5	0	0	Typical Model Number (FPASM-42215(20)2500)	

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)

Remote Mounted Control Accessories	PCN
RTAS Thermostat	389589
RTAS-EP Division 2 Thermostat	389597
B-100 NEMA 4X Thermostat	305365
E-100 NEMA Division 1 Thermostat	305322
LCD-1 Snow Switch	389781

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

weatherTRACE™

Freeze Protection Heat Trace Panels

(cont'd.)

Ordering Information

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

Model FPASM featuring the WeatherTrace Sentinel 277 Vac 4-Wire Ambient Rating 40°C (104°F)
FPASM FPASM Series Ambient Sensing Heat Trace Panels are designed for use in industrial Freeze Protection and Snow Melt applications. The Chromalox FPASM 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 30 mA Ground Fault Equipment Protection. The FPASM WeatherTrace Sentinel continually monitors the supply voltage to each individual heat trace circuit. Loss of voltage or a ground fault condition triggers an automatic alarm condition to an annunciator panel which identifies the faulted zone and a common alarm is activated with the re-ring feature. 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 FPASM series panels have UL and cUL Third Party Approvals.

Code	Panelboard	Available Breaker Poles
181	18 Positions (100 Amp Main Rating)	(8) 1-pole breakers
301	30 Positions (100 Amp Main Rating)	(14) 1-pole breakers
421	42 Positions (100 Amp Main Rating)	(20) 1-pole breakers
302	30 Positions (225 Amp Main Rating)	(14) 1-pole breakers
422	42 Positions (225 Amp Main Rating)	(20) 1-pole breakers

Code	Power Source	Heater Load
1	3 Phase Power, 277/480 Vac 4-Wire	277 Vac (240 Vac Cable)

Code Enclosure 48"H x 36"W x 10"D (Codes 12 & 20), 60"H x 36"W x 10"D (Codes 30 & 42)

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

Code Ground Fault Branch Circuit Breaker (see table for maximum number of circuit breakers allowed)

1(*)	15 Amp 1-Pole GFI Circuit Breaker for 277 Vac load
2(*)	20 Amp 1-Pole GFI Circuit Breaker for 277 Vac load
3(*)	30 Amp 1-Pole GFI Circuit Breaker for 277 Vac load
4(*)	40 Amp 1-Pole GFI Circuit Breaker for 277 Vac load

Code Main Disconnect Switch Selection

0	None
1	100 Amp with 25k Fault Protection (Code 181, 301 & 421 Only)
2	250 Amp with 35k Fault Protection

Code Ambient Controller

0	None (See Accessories)
5	1601E-11030 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

FPASM 422 1 1 1(10) 2 5 0 0 Typical Model Number (FPASM-422111(10)2500)

Remote Mounted Control Accessories	PCN
RTAS Thermostat	389589
RTAS-EP Division 2 Thermostat	389597
B-100 NEMA 4X Thermostat	305365
E-100 NEMA Division 1 Thermostat	305322
LCD-1 Snow Switch	389781

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)

277 Vac	Breaker Rating			
	Maximum Number of Breakers			
	15 Amp	20 Amp	30 Amp	40 Amp
100 amp Panel Board	20	18	12	9
225 amp Panel Board	20	20	20	20