

## weatherTRACE™

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

#### Ordering Information

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

<b>Model</b>	<b>FPLSM featuring WeatherTrace Sentinel (120, 208; 240 Vac)</b>							
<b>FPLSM</b>	FPLSM Series Line Sensing Heat Trace Panels are designed for use in industrial Freeze Protection and Snow Melt applications. The Chromalox FPLSM series offers the following standard features: NEMA 4 enclosure, Main Power On Lamp, and Thermal Magnetic Branch Circuit Breakers with 30mA Ground Fault Equipment Protection. The FPLSM 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, Cabinet Heater, and Type Z Pressurization System. The FPLSM series panels have UL and cUL Third Party Approvals.							
<b>Code</b>	<b>Panelboard</b>	<b>Available Breaker Poles</b>						
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						
<b>Code</b>	<b>Line Voltage</b>	<b>Heater Load</b>				<b>Breaker Poles</b>		
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		
<b>Code</b>	<b>Enclosure 48"H x 36"W x 10"D (Codes 12 &amp; 20), 60"H x 36"W x 10"D (Codes 30 &amp; 42)</b>							
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)							
<b>Code</b>	<b>Ground Fault Branch Circuit Breaker (see table for maximum number of circuit breakers allowed)</b>							
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							
<b>Code</b>	<b>Main Disconnect Switch Selection</b>							
0	None							
1	100 Amp with 65k Fault Protection (Code 12 & 20 Only)							
3	250 Amp with 65k Fault Protection (Code 30 & 42 Only)							
<b>Code</b>	<b>Enclosure Heater</b>							
0	None							
1	Thermostat Controlled Enclosure Heater							
<b>Code</b>	<b>Pressurization Control System</b>							
0	None							
1	Type Z Class 1, Division 2							
<b>FPLSM</b>	<b>30</b>	<b>2</b>	<b>1</b>	<b>2(30)</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>Typical Model Number (FPLSM-30212(30)300)</b>

#### 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	Line Voltage	15 Amp	20 Amp	25 Amp	30 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	Code 3 (2 Pole CB)	20	20	19	16
Code 4 (2 Pole CB)	8	6	5	4	Code 4 (2 Pole CB)	18	14	11	9

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### Freeze Protection Heat Trace Panels

(cont'd.)

**Ordering  
Information**

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

Model	FPLSM featuring WeatherTrace Sentinel 277 Vac 4-Wire Ambient Rating 40°C (104°F)							
FPLSM	FPLSM series Line Sensing Heat Trace Panels are designed for use in Freeze Protection and Snow Melt applications. The Chromalox FPLSM series offers the following standard features: NEMA 4 enclosure, Main Power On Lamp, and Thermal Magnetic Branch Circuit Breakers with 30 mA Ground Fault Equipment Protection. The FPLSM WeatherTrace Sentinel continually monitors the supply voltage to each individual heat trace circuit. Loss of voltage of a ground fault condition triggers an automatic alarm to an annunciator panel which identify's the faulted zone and a Common Alarm is activated with the Re-Ring Feature. The FPLSM Options include: NEMA 4X 304 Stainless Steel Enclosures, Main Disconnect Switch, Enclosure Heater, and Type Z Pressurization System. The FPLSM series have UL and cUL Third Party Approvals.							
	<b>Code</b>	<b>Panelboard</b>	<b>Available Breaker Poles</b>					
	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					
	<b>Code</b>	<b>Power Source</b>	<b>Heater Load</b>					
	1	3 Phase Power, 277/480 Vac 4-Wire	277 Vac (240 Vac Cable)					
	<b>Code</b>	<b>Enclosure</b>	<b>48"H x 36"W x 10"D (Codes 12 &amp; 20), 60"H x 36"W x 10"D (Codes 30 &amp; 42)</b>					
	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)						
	<b>Code</b>	<b>Ground Fault Branch Circuit Breaker (see table for maximum number of circuit breakers allowed)</b>						
	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						
	<b>Code</b>	<b>Main Disconnect Switch Selection</b>						
	0	None						
	1	100 Amp with 25k Fault Protection (Code 181, 301 & 421 Only)						
	2	250 Amp with 35k Fault Protection (Code 302 & 422)						
	<b>Code</b>	<b>Enclosure Heater</b>						
	0	None						
	1	Thermostat Controlled Enclosure Heater						
	<b>Code</b>	<b>Pressurization Control System</b>						
	0	None						
	1	Type Z Class 1, Division 2						
FPLSM	181	1	1	1(5)	1	0	0	<b>Typical Model Number (FPLS-18111(5)100)</b>

**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)

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