

## WeatherTrace

### Freeze Protection Heat Trace Panels

(cont'd.)

#### Ordering Information

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

Model 277 VAC 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)
181	18 Positions (100 Amp Main Rating)	(8) 1-pole breakers	48 x 36 x 10 (122 x 92 x 25)
301	30 Positions (100 Amp Main Rating)	(14) 1-pole breakers	48 x 36 x 10 (122 x 92 x 25)
421	42 Positions (100 Amp Main Rating)	(20) 1-pole breakers	60 x 36 x 10 (152 x 92 x 25)
302	30 Positions (225 Amp Main Rating)	(14) 1-pole breakers	48 x 36 x 10 (122 x 92 x 25)
422	42 Positions (225 Amp Main Rating)	(20) 1-pole breakers	60 x 36 x 10 (152 x 92 x 25)

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

Code	Enclosure Rating
1	NEMA 4 Single-Door, Wall-Mount Steel Enclosure
2	NEMA 4X 304 Stainless Steel Wall-Mount Enclosure; (Code 181, 301 & 302)
3	NEMA 4X 304 Stainless Steel Wall-Mount Enclosure; (Code 421 & 422)

#### 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(\*) 30 Amp 1-Pole GFI Circuit Breaker for 120 VAC load
- 4(\*) 40 Amp 1-Pole GFI Circuit Breaker for 120 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</b>	
A	30 Amp, 3 Pole Circuit Breaker
B	50 Amp, 3 Pole Circuit Breaker
C	70 Amp, 3 Pole Circuit Breaker
F	125 Amp, 3 Pole Circuit Breaker
G	175 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- 302 1 1 2(10) 2 5 1 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)

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

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

HEAT TRACE  
CONTROL PANELS