














	Product #	Description
	A19QSC-1C	Freeze protection NEMA 4X ambient or line sensing thermostat temperature control 120-277V, 22A, SPST c/w with 10' (3 m) capillary
	A421ABC-02C	NEMA 1 adjustable electronic temperature control 120V 15A, 208V 10A or 240V 10A, SPDT c/w A99BB-200C PTC sensor with 6.5' (2 m) lead  Range -40 °C to 100 °C ( -40 °F to 212 °F)
	A421AEC-02C	NEMA 4X adjustable electronic temperature control 120V 15A, 208V 10A or 240V 10A, SPDT c/w A99BB-200C PTC sensor with 6.5' (2 m) lead  Range -40 °C to 100 °C ( -40 °F to 212 °F)
	A99BC-1500C	49' (15 m) thermistor lead
	A99BB-600C	19.7' (6 m) thermistor lead

	Product #	Description
	ELTC-14-RTD	Digital temperature control 20A at 90-260V, including 3-wire RTD (Pt-100) sensing element is 5 x 50 mm with 5 m of fluoropolymer lead wires, range 0 °C to 250 °C (32 °F to 482 °F)  Suitable for used with GFEP panels

	Product #	Description										
	E100-13545	<p>Nema 4X epoxy painted die cast aluminum line sensing thermostat 120-480V, 22A, SPDT c/w 10' (3 m) stainless steel capillary</p> <p>Range -3.8 °C to 162.7 °C (25 °F to 325 °F)</p>										
	B100-13546	<p>Nema 4X epoxy painted die cast aluminum ambient sensing thermostat 120-480V, 22A, SPDT c/w stainless steel stem sensor</p> <p>Range -40 °C to 71 °C (-40 °F to 160 °F)</p>										
	E121-13273	<p>Explosion -proof NEMA 4X 7, 9 and IP66 epoxy painted die cast aluminum line sensing thermostat temperature control 120-480V, 22A, SPDT c/w 10 ft. (3 m) stainless steel capillary</p> <p>Range -3.8 °C to 162.7 °C (25 °F to 325 °F)</p> <table border="1"> <thead> <tr> <th colspan="2">Approvals</th> </tr> </thead> <tbody> <tr> <td>UL</td> <td>CSA / FM</td> </tr> <tr> <td>Class I, Division 1 &amp; 2 Grps. B, C &amp; D</td> <td>Class I, Division 1 &amp; 2 Grps. B, C &amp; D</td> </tr> <tr> <td>Class II, Division 1 &amp; 2 Grps. #, F &amp; G</td> <td>Class II, Division 1 &amp; 2 Grps. E, F &amp; G</td> </tr> <tr> <td></td> <td>Class III, Division 1 &amp; 2</td> </tr> </tbody> </table>	Approvals		UL	CSA / FM	Class I, Division 1 & 2 Grps. B, C & D	Class I, Division 1 & 2 Grps. B, C & D	Class II, Division 1 & 2 Grps. #, F & G	Class II, Division 1 & 2 Grps. E, F & G		Class III, Division 1 & 2
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	B121-13272	<p>Explosion -proof NEMA 4X 7, 9 and IP66 epoxy painted die cast aluminum ambient sensing thermostat temperature control 120-480V, 22A, SPDT c/w stainless steel stem</p> <p>Range -9 °C to -60 °C (15 °F to 140 °F)</p> <table border="1"> <thead> <tr> <th colspan="2">Approvals</th> </tr> </thead> <tbody> <tr> <td>UL</td> <td>CSA / FM</td> </tr> <tr> <td>Class I, Division 1 &amp; 2 Grps. B, C &amp; D</td> <td>Class I, Div. 1 &amp; 2 Grps. B, C &amp; D</td> </tr> <tr> <td>Class II, Division 1 &amp; 2 Grps. #, F &amp; G</td> <td>Class II, Div. 1 &amp; 2 Grps. E, F &amp; G</td> </tr> <tr> <td></td> <td>Class III, Div. 1 &amp; 2</td> </tr> </tbody> </table>	Approvals		UL	CSA / FM	Class I, Division 1 & 2 Grps. B, C & D	Class I, Div. 1 & 2 Grps. B, C & D	Class II, Division 1 & 2 Grps. #, F & G	Class II, Div. 1 & 2 Grps. E, F & G		Class III, Div. 1 & 2
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	ECA-E55-R25HT	<p>SPDT, NEMA 4X thermostat in molded aluminum housing, 22A at 120/250/480V, with 10 ft. (3 m) stainless steel bulb and capillary</p> <p>Requires a ground fault circuit interrupter (GFCI) in the electrical panel</p>										

	Product #	Description
	S1-A	NEMA 4X IP67 electronic single point line sensing heat trace controller 100-277V, 30A c/w built-in 30 mA GFEP and 20' (6 m) lead, 10k ohms thermistor, Wi-Fi, Ethernet, Modbus and BACnet <sup>1</sup> capabilities
	S1-B	NEMA 4X IP67 electronic single point line sensing heat trace controller 100-277V, 30A c/w built-in 30 mA GFEP and 20' (6 m) lead, 10k ohms thermistor, Wi-Fi, Ethernet capabilities
	GATEWAY-PCKG	24VDC BACnet gateway assembly with power supply NEMA 4X enclosure with 24VDC transformer for S1 Series
	GATEWAY	24VDC BACnet gateway stand alone for S1 Series
	DT-INT-GFEP-CTRL	Heat Tracing interface panel for controls

<sup>1</sup> BACnet IP or MS/TP available via preconfigured SMC gateway, sold separately.

	Product #	Description
	FPT-130	NEMA 4X IP66 mechanical single point line sensing heat trace controller 100-277V, 30A c/w built-in 30 mA GFEP and 20' (6 m) lead, 100k ohms at 25 °C (77 °F) thermistor  Range -40 °C to 110 °C (-40 °F to 230 °F)
	GPT-130	NEMA 4X IP66 electronic single point line sensing heat trace controller 100-277V, 30A c/w built-in 30 mA GFEP and 20' (6 m) lead, 100k ohms at 25 °C (77 °F) thermistor  Range -40 °C to 110 °C (-40 °F to 230 °F)
	GPT-230	NEMA 4X IP66 electronic dual point line sensing heat trace controller 100-277V, 2X 30A c/w built-in 30 mA GFEP and 2X 20' (6 m) lead, 100k ohms at 25 °C (77 °F) thermistor  Range -40 °F to 110 °C (-40 °C to 230 °F)



**TraceMate™**

Advanced NEMA 4X steel, powder coat painted electronic controller. Designed for indoor or outdoor use in non-hazardous and hazardous areas c/w built-in GFEP.

CSA C US  
Class I, Division 2, Groups A, B, C, D  
Class I, Zone II, Groups IIC

Temperature range -50 °C to 500 °C (-58 °F to 932 °F)  
Operating range -40 °C to 50 °C (-40 °F to 122 °F)  
LCD Display operating range -20 °C to 50 °C (-4 °F to 122 °F)

Product #	Description
TM-1SIH1-E5-RTD-A1	TraceMate™ I GFCI electronic thermostat for single circuit at 120V, 30A
TM-1DIH2-E5-RTD-A1	TraceMate™ I GFCI electronic thermostat for single circuit at 240/208V, 30A
TM-1SIH1-E5-RTD-A1-277	TraceMate™ I GFCI electronic thermostat for single circuit at 277V, 30A
TM-2SIH1-E5-RTD	TraceMate™ II GFCI electronic thermostat for dual circuit at 120V, 2 x 30A
TM-2SIH1-E5-RTD-277	TraceMate™ II GFCI electronic thermostat for dual circuit at 277V, 2 x 30A
TM-2DIH2-E5-RTD-208-240	TraceMate™ II GFCI electronic thermostat for dual circuit at 240/208V, 2 x 30A



**MasterTrace<sup>1</sup>**

Advanced NEMA 4X steel, powder coat painted electronic controller. Designed for use in non-hazardous and hazardous areas c/w built-in GFEP, RS485 type with Modbus © RTU protocol, comes with a 9 tactile keys, polyester faceplate and LCD display.

CSA C US  
Class I, Division 2, Groups A, B, C, D  
Class I, Zone II, Groups IIC  
Class II, Division 2, Groups F & G  
Class III

Temperature range -50 °C to 500 °C (-58 °F to 932 °F)  
Operating range -40 °C to 50 °C (-40 °F to 122 °F)

Product #	Description
MS-2101	MasterTrace single circuit electronic GFCI controller with double pole, 85V to 300V, 30A, with user interface
MS-2101-E3	MasterTrace single circuit electronic GFCI controller with double pole, 85V to 300V, 30A, with user interface, stainless steel housing
MS-2102	MasterTrace double circuit electronic GFCI controller with single pole, 120V or 277V, 2 x 30A, with user interface
MS-2102-E3	MasterTrace double circuit electronic GFCI controller with single pole, 120V or 277V, 2 x 30A, with user interface, stainless steel housing
RTD-7	RTD probe for MasterTrace controller

<sup>1</sup> Multi-circuit custom MasterTrace control panels are available upon request.



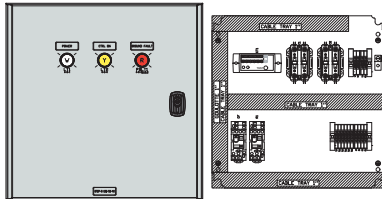
Picture of DT-4P40A-24 shown as example.

**DT-XP40A Enclosed Contactor Panels**

- Contactor panels with NEMA 1 enclosure:
- Contactor rating 40FLA (50A resistive), 600V max.
  - Contactor coil voltage 120V

Product #	Description
DT-4P40A	Enclosed contactor panel 4 circuits 120/277V (2 circuits 208/240/480V), NEMA 1, 1 x 4 poles 50A resistive contactor, control sold separately
DT-8P40A	Enclosed contactor panel 8 circuits 120/277V (4 circuits 208/240/480V), NEMA 1, 2 x 4 poles 50A resistive Contactor, control sold separately
DT-12P40A	Enclosed contactor panel 12 circuits 120/277V (6 circuits 208/240/480V), NEMA 1, 3 x 4 poles 50A resistive contactor, control sold separately
DT-16P40A	Enclosed contactor panel 16 circuits 120/277V (8 circuits 208/240/480V), NEMA 1, 4 x 4 poles 50A resistive contactor, control sold separately
DT-4P40A-24	Enclosed contactor panel 4 circuits 120/277V (2 circuits 208/240/480V), NEMA 1, 1 x 4 poles 50A resistive contactor c/w 24V control transformer, control sold separately
DT-8P40A-24	Enclosed contactor panel 8 circuits 120/277V (4 circuits 208/240/480V), NEMA 1, 2 x 4 poles 50A resistive contactor c/w 24V control transformer, control sold separately
DT-12P40A-24	Enclosed contactor panel 12 circuits 120/277V (6 circuits 208/240/480V), NEMA 1, 3 x 4 poles 50A resistive contactor c/w 24V control transformer, control sold separately
DT-16P40A-24	Enclosed contactor panel 16 circuits 120/277V (8 circuits 208/240/480V), NEMA 1, 4 x 4 poles 50A resistive contactor c/w 24V Control transformer, control sold separately

Standard color is grey.



**GFEP Panels**

NEMA 4X (Painted steel) relay control panels c/w a built-in GFPE that can be used for snow melting, de-icing, or heat tracing applications.

Three light indicators mounted on the panel: Power On (White), Control on (Yellow) and Alarm (Red).

We recommend using for snow melting and de-icing applications the ETO2 controller or for heat tracing the ELTC-14-RTD controller, both are sold separately.

Product #	Description
GFEP-2-120-30-4X	120V Ground fault panel two 30A circuit relay NEMA 4X (Painted steel) controller sold separately
GFEP-2-208-30-4X	208V Ground fault panel two 30A circuit relay NEMA 4X (Painted steel) controller sold separately
GFEP-2-240-30-4X	240V Ground fault panel two 30A circuit relay NEMA 4X (Painted steel) controller sold separately
GFEP-2-277-30-4X	277V Ground fault panel two 30A circuit relay NEMA 4X (Painted steel) controller sold separately
GFEP-2-480-30-4X	480V Ground fault panel two 30A circuit relay NEMA 4X (Painted steel) controller sold separately
GFEP-4-120-30-4X	120V Ground fault panel four 30A circuit relay NEMA 4X (Painted steel) controller sold separately
GFEP-4-208-30-4X	208V Ground fault panel four 30A circuit relay NEMA 4X (Painted steel) controller sold separately
GFEP-4-240-30-4X	240V Ground fault panel four 30A circuit relay NEMA 4X (Painted steel) controller sold separately
GFEP-4-277-30-4X	277V Ground fault panel four 30A circuit relay NEMA 4X (Painted steel) controller sold separately
GFEP-4-480-30-4X	480V Ground fault panel four 30A circuit relay NEMA 4X (Painted steel) controller sold separately
GFEP-6-120-30-4X	120V Ground fault panel six 30A circuit relay NEMA 4X (Painted steel) controller sold separately
GFEP-6-208-30-4X	208V Ground fault panel six 30A circuit relay NEMA 4X (Painted steel) controller sold separately
GFEP-6-240-30-4X	240V Ground fault panel six 30A circuit relay NEMA 4X (Painted steel) controller sold separately
GFEP-6-277-30-4X	277V Ground fault panel six 30A circuit relay NEMA 4X (Painted steel) controller sold separately
GFEP-6-480-30-4X	480V Ground fault panel six 30A circuit relay NEMA 4X (Painted steel) controller sold separately
GFEP-8-120-30-4X	120V Ground fault panel eight 30A circuit relay NEMA 4X (Painted steel) controller sold separately
GFEP-8-208-30-4X	208V Ground fault panel eight 30A circuit relay NEMA 4X (Painted steel) controller sold separately
GFEP-8-240-30-4X	240V Ground fault panel eight 30A circuit relay NEMA 4X (Painted steel) controller sold separately
GFEP-8-277-30-4X	277V Ground fault panel eight 30A circuit relay NEMA 4X (Painted steel) controller sold separately
GFEP-8-480-30-4X	480V Ground fault panel eight 30A circuit relay NEMA 4X (Painted steel) controller sold separately
GFEP-12-120-30-4X	120V Ground fault panel twelve 30A circuit relay NEMA 4X (Painted steel) controller sold separately
GFEP-12-208-30-4X	208V Ground fault panel twelve 30A circuit relay NEMA 4X (Painted steel) controller sold separately
GFEP-12-240-30-4X	240V Ground fault panel twelve 30A circuit relay NEMA 4X (Painted steel) controller sold separately
GFEP-12-277-30-4X	277V Ground fault panel twelve 30A circuit relay NEMA 4X (Painted steel) controller sold separately
GFEP-12-480-30-4X	480V Ground fault panel twelve 30A circuit relay NEMA 4X (Painted steel) controller sold separately
<b>Option<sup>1</sup></b>	
-SS	Stainless steel panel option available on order, please contact the factory for lead time

<sup>1</sup> Custom panels are available on request, please contact factory.