



Heat Trace Controller Comparison

| | Frio S1-A | Thermon TCM2 |
|--------------------------------------|---------------------------------------|--------------------------------|
| Voltage | 120-277 VAC 50/60 Hz. | 120-240 VAC 50/60 Hz. |
| Current | 30 A | 30 A (or less) |
| Relay Type | Single-circuit Double-pole Mechanical | Dual-circuit (relay varies) |
| Enclosure | NEMA 4X | NEMA 4X Optional |
| Dimensions | 6.29in x 7.55in x 3.625 in | 4.65in x 4.7in 3.25in (Module) |
| Operating Temperature | -30 °C to 60 °C | -30 °C to 40 °C |
| RTD Input | PT 100 RTD | PT 100 RTD |
| Thermistor Input | Frio Thermistor Included (10k NTC) | - |
| Local Communications | Modbus RS-485 | Modbus RS-485 |
| BACnet Connectivity | w/ Gateway | w/ Gateway |
| Wi-Fi Connectivity | 802.11 Dual Band 2.4 GHz & 5 GHz | - |
| Ethernet Connectivity | Ethernet (RJ45, Cat 5 or 6) | - |
| GFEP Test | Yes | Yes |
| GFEP Trip Level | Adjustable 30-300 mA | 30 mA |
| Alarm Output | Dry Contact | Dry Contact |
| GFEP Alarm | Yes | Yes |
| Sensor Failure Alarm | Yes | Yes |
| Low Temperature Alarm | Yes | Yes |
| High Temperature Alarm | Yes | Yes |
| Low Current Alarm | Yes | Yes |
| High Current Alarm | Yes | Yes |
| Power Loss Alarm | Yes | Yes |
| Network Loss Alarm | Yes | - |
| Heater On LED | Yes | Yes |
| Alarm LED | Yes | Yes |
| Status LED | Yes | Yes |
| Ambient Control | Yes | Yes |
| Pipe Sensing Control | Yes | Yes |
| Cloud Platform Compatible | Yes | - |
| Mobile Device Compatible | Yes | - |
| Cloud-Based Monitoring | Yes | - |
| Cloud-Based Control | Yes | - |
| Hybrid Cloud Control | Yes | - |
| Spot Check Verification | Yes | - |
| Automatic Installation Report | Yes | - |
| SMS Notifications | Yes | - |
| Email Notifications | Yes | - |
| Remote Test/Reset | Yes | - |
| Remote Override | Yes | - |
| Remote Settings Configuration | Yes | - |
| Remote Device Management | Yes | - |