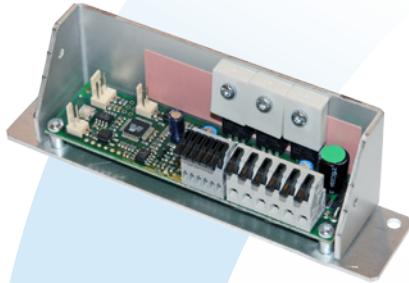


Q Series, TC-18-QE-50 Temperature Controller



Q SERIES TEMPERATURE CONTROLLER

The Q Series thermostatic controller is a microcontroller based device that can be incorporated into a thermoelectric assembly (TEA) to add integrated temperature control. This controller functions as a cooling control device and features an adjustable temperature set point range from 30°C to 40°C. The Q Series controller provides a single directional temperature control for standard or custom thermostatic control with several input and output options. Custom configurations are available, however MOQ applies.

FEATURES

- Operation in cooling mode.
- Regulation mode is ON/OFF at the programmed set point and hysteresis.
- Input power range can accommodate 11 to 58 VDC, nominally 12 to 48 VDC.
- Outputs are available for fan, thermoelectric module, NTC thermistor, tachometer sensor, overheating thermostat switch, alarm, and LED. Some features offered on custom configuration only.

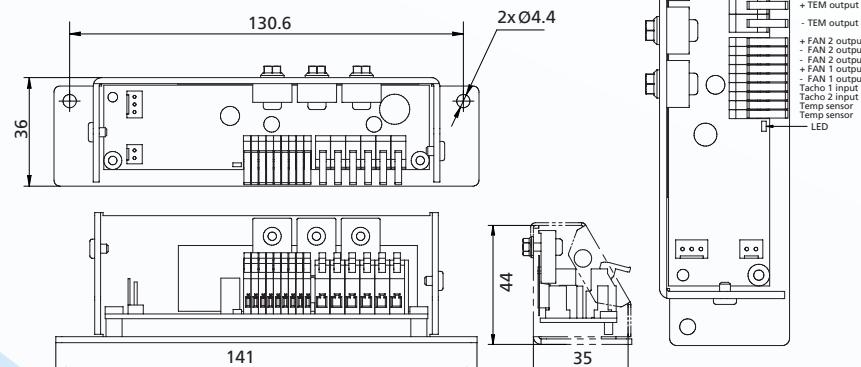
BENEFITS

- The controller's temperature set point can be adjusted with an internal potentiometer in the interval range of 30°C to 40°C.
- Tachometer sensor inputs available to measure the speed of two fans. Feature sold on custom units only.
- Overheating thermostat switch input available to sense an over temperature condition and will turn off power to TEA. A thermostat is required for operation.
- Alarm and LED outputs available to indicate functional status of controller.

MARKETS

- Medical diagnostics
- Analytical instrumentation
- Photonics laser systems
- Electronic enclosure cooling
- Chillers (liquid cooling)

ISOMETRIC DRAWINGS



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Innovative Technology
for a Connected World

Q Series, TC-18-QE-50 Temperature Controller

Specifications	
Power	
Voltage	11 to 58 VDC
Current	8 A without added cooling / 16 A with added cooling
Power	786 W @ 48 VDC Max, 384 W @ 24 VDC Max, 192 W @ 12 VDC Max
User Interface	Onboard Potentiometer
Sensors	
Temp Sensor	NTC Thermistor
Fan Tachometer 1	Use with fans w/ an open collector tachometer
Fan Tachometer 2	Use with fans w/ an open collector tachometer
Outputs	
Thermoelectric Module	Supply voltage @ ≤16 A
Fan 1	Supply voltage @ 2 A
Fan 2	Supply voltage @ 2 A
Alarm Relay	Open collector, Opto-isolated
Overheating Thermostat	Overheating protection
LED	Status/Errors
Alarms	
Low Voltage	If voltage is lower than programmed minimum level the outputs are shut down after a programmed time
High Voltage	Outputs are shut down instantly.
Tachometer 1 & 2*	If the RPM signal is lower than the programmed minimum level, error is indicated
Max Voltage	VCEO = 35 V, VECO = 6 V
Max Current	Ic = 50 mA
Note: All programming of parameters are conducted by Laird Technologies	
Temperature Regulation	
ON/OFF mode	Controller switches the TEM output between full power to zero power at the programmed set point and hysteresis
Programmed Control Set Point	Cooling at 35°C, Off at 32°C
Trim Range	± 5°C
Accuracy	± 1°C
Protection	
	Over and under voltage
	Reverse polarity

* Feature sold on custom units only.

THR-DS-TC-18-QE-50 0311

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Наши контакты:

Телефон: +7 812 627 14 35

Электронная почта: sales@st-electron.ru

Адрес: 198099, Санкт-Петербург,
Промышленная ул, дом № 19, литер Н,
помещение 100-Н Офис 331