

Thermo Scientific Two-Channel Control Card, SafeTNet 2000™

Microprocessor-based controller for remote gas detection



Half-rack configuration



Full-rack configuration



SafeTNet 2000 control card



The Thermo Scientific SafeTNet 2000 is a microprocessor-based control card designed to accept input from one or two remotely located combustible, oxygen and/or toxic gas detector heads.

The STN2000 two-channel control card simultaneously displays real-time gas concentrations for each active channel. Each channel is supported by low and high alarm relays that feature both audible and visual indicators to warn the user against hazardous gas concentration conditions.

In addition, the common-fault relay will activate if a channel nears potential malfunction. Fully programmable relay options are available for time delay adjustments, latching or non-latching and energizing or de-energizing activation.

Modular System Capabilities

The SafeTNet 2000 offers flexible design options for modular gas monitoring systems. Installing the STN2000 control card into a full rack provides up to 18 detection points with power or 20 with external power supply. The half rack option provides up to 8 detection points or 10 with external power supply. An optional NEMA 4X enclosure is available for each rack.

Applications Include:

- Waste Treatment plants
- Water Treatment plants
- Petrochemical refineries
- Pulp & paper mills
- Steel plants
- Mining & Tunneling operations
- Boiler plants
- Parking Garages
- Equipment Shelters

Key Features

- All functions fully programmable through dip and push button switches
- Fully configurable to any standard 4 to 20 mA detector head
- Common-fault alarm relay
- Simple alarm-point verification
- Programmable time delay for single operator calibration

Product Specifications

To maintain optimal product performance, you need immediate access to experts worldwide, as well as priority status when your air quality equipment needs repair or replacement. We offer comprehensive, flexible support solutions for all phases of the product lifecycle. Through predictable, fixed-cost pricing, our services help protect the return on investment and total cost of ownership of your Thermo Scientific air quality products.

Two-Channel Control Card, SafeTNet 2000

Preset Ranges	Configurable, with indicator for % LEL, ppm, or % volume
Detector Heads	Combustible, oxygen & toxic
Inputs	Two 24 Vdc, 4 to 20 mA analog inputs; source type - 2 or 3 wires
Analog Output	4 to 20 mA source for each channel (1,000 ohms maximum)
Relay output	Individual, low (Form C), high (Form A or B) for each channel: programmable for latching/non-latching, energized/de-energized. Common fault (Form A or B): normally energized, programmable for latching/non-latching. Each relay rated at 10A/12 VAC
Operational Temperature	-4°F to 113°F (-20°C to 45°C)
Humidity	0-95% RH, non-condensing
Area Classification	General purpose
Low/High Alarms	Independently adjustable from "off" to full audible/visual indication. Can be acknowledged and activated for rising/falling levels
Calibration Time Out	Programmable up to 99 seconds (disablement available)
Alarm Delay	Programmable up to 99 seconds (disablement available)
Operating Voltage	18 to 30 Vdc, 24Vdc normal
Power Requirements	0.25A maximum fused at 1.0A
Control Card	
Dimensions	1.6 " (41mm) L x 6.8" (173mm) H x 11.35" (288mm) W
Weight	1.3lbs (0.6kg)
Half Rack Dimensions	7.1" (180mm) W x 10.6" (269mm) L x 11.2" (284mm) D
Full Rack Dimensions	7.1" (180mm) W x 19" (483mm) L x 11.2" (284mm) D

Ordering Information

Two Channel-Control Card, Model SafeTNet 2000

Configure your own Model STN2000 using the following steps:

Step I: Specify the type and quantity of each transmitter (featured below)

*Transmitter(s) must be purchased separately. Wiring not included.

Step II: Specify the quantity of STN2000 control cards

To determine the number of cards, divide the transmitter selection by two

*Each control card has inputs for receiving signals from a combination of any two transmitters.

Step III: Specify the size of card rack to accommodate the number of control cards

Half Rack Up to four control cards with one power supply

Full Rack Up to nine control cards with power supply

Step IV: Specify the power supply

Half Rack Input: 100VAC - 230VAC

Output: 50 Watts

Full Rack Input: 100VAC - 230VAC

Output: 150 Watts

Available Thermo Scientific industrial hygiene gas transmitters:



Standard Diffusion Transmitter



FX-SMT (LEL) (Combustible)



FX-SMT (Oxygen/Toxic)



FX-IR

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This product is manufactured in a plant whose quality management system is ISO 9001 certified.

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