

Model 128

Wall mounted, local area monitor for one to eight sensors

The Model 128 is a wall mounted gas monitor designed for reliable gas detection, easy installation, and low total cost of ownership. The Model 128 is a cost-effective solution for warning of unsafe gas levels in areas such as semiconductor manufacturing, wastewater treatment, garages, warehouses, toll booths, gas bunkers, utilities, and telecom industries.



The Model 128 accepts from one to eight combustible, oxygen, and/or toxic sensors. Each sensor provides a digitized output, allowing easy and economical networking of multiple sensors

Features

- Accepts from one to eight remote sensors
- Unique built-in calibration reminder
- Auto-Install™ feature simplifies set up
- One person calibration for all sensors
- Reduces installation cost through digital communication
- 19 different sensors available
- Super bright LED array provides quick indication of normal, fault, and alarm conditions
- Easy plug-in electrochemical sensor replacement
- Loud audible alarm (98 dB)
- Combustible gas sensors are mounted in an explosion proof housing
- Non-intrusive calibration for combustible sensor
- Outstanding protection from EMI/RF interference
- Common programmable internal relays for Low, High, and Fail alarms
- Housed in a weather-tight fiberglass enclosure
- Intrinsically safe oxygen and toxic gas sensors available
- Easy to follow instructions on an internal LCD for calibration, alarm setting, concentration values, and programming
- RS-232 serial output for datalogging
- User configurable alarms

Wall mounted, local area monitor

The Model 128 is part of Thermo's complete gas detection family, which includes single gas portable monitors to multi-point integrated systems. You can be confident that our versatile solutions and worldwide customer support will ensure you maximum productivity.

Sensors

Toxic/O₂: intrinsically safe for Class I, Groups A, B, C, & D areas (optional)

Area Classification

General purpose

Combustible

Explosion-proof, suitable for Class I, Groups B, C, & D hazardous

Inputs

One to eight remote sensors

Current Consumption

0.2 A protected by a 0.5 A fuse

Operating Temperature

-4°F to 122°F (-20°C to 50°C)

Humidity

0 to 95% RH, non-condensing

Low Alarms

- User programmable
- Latching or non-latching
- Energized or de-energized
- Alarm delay

High Alarms

- User programmable
- Energized or de-energized
- Alarm delay

Audible Alarm

98 dB at 1 foot (30 cm)

Display

High intensity LEDs

Programming

Five buttons: Run, Enter, Up, Down, Reset

Datalogging Output

RS-232 serial communications

Internal Relays

Common low, high, and fault alarms, form C contacts rated at 5 amps/250 VAC

Input Power

100/130 VAC 50/60 HZ,
200/260 VAC 50/60 HZ (optional)

Dimensions

10 in (254 mm) H x
8 in (203 mm) W x
6 in (152 mm) D

Weight

8 pounds (3.6 kg)

Case Materials

NEMA 4X fiberglass polyester

Calibration Time Out

User adjustable from Off to 100 minutes

Response Time

- 90% in less than 60 seconds (except Combustibles, HCL, and HF)
- 90% in less than 70 seconds (HCL)
- 90% in less than 90 seconds (HF)
- 90% in less than 30 seconds (Combustibles)

Calibration Reminder

User adjustable from Off to 180 days

Approvals

CSA approved and NRTL classification

Warranty

One year (materials and workmanship)

Gas	Formula	Standard Range
Ammonia	NH ₃	0 to 100 ppm in 1 ppm increments
Arsine	AsH ₃	0 to 1.00 ppm in 1 ppm increments
Carbon monoxide	CO	0 to 500 ppm in 1 ppm increments
Chlorine	Cl ₂	0 to 10.0 ppm in 0.1 ppm increments
Chlorine dioxide	ClO ₂	0 to 2.00 ppm in 0.01 ppm increments
Combustibles	several	0 to 100% LEL in 1% LEL
Diborane	B ₂ H ₆	0 to 1.00 ppm in 0.01 ppm increments
Fluorine	F ₂	0 to 10.0 ppm in 0.1 ppm increments
Hydrogen chloride	HCl	0 to 30.0 ppm in 0.1 ppm increments
Hydrogen cyanide	HCN	0 to 50.0 ppm in 0.1 ppm increments
Hydrogen fluoride	HF	0 to 10.0 ppm in 0.1 ppm increments
Hydrogen sulfide	H ₂ S	0 to 100 ppm in 1 ppm increments
Nitric oxide	NO	0 to 100 ppm in 1 ppm increments
Nitrogen dioxide	NO ₂	0 to 20.0 ppm in 0.1 ppm increments
Oxygen	O ₂	0 to 30.0% Vol. in 0.1% increments
Ozone	O ₃	0 to 1.0 ppm in 0.1 ppm increments
Phosphine	PH ₃	0 to 1.0 ppm in 0.1 ppm increments
Silane	SiH ₄	0 to 50.0 ppm in 0.1 ppm increments
Sulfur dioxide	SO ₂	0 to 10.0 ppm in 0.1 ppm increments

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