

SC-2124

24-Channel

Universal Scanner

The SC-2124™ Series are universal scanners for continuous monitoring of 24 channels of temperature, pressure, or any other analog signal. Modbus communications is an option.

**2-Year
Warranty**



*Class I, Division 2,
Group A, B, C, D*

The SC-2124 microprocessor-based Universal Scanner continually checks temperature, pressure, or other analog signals and shows them on a large alphanumeric display.

This multi-informational display indicates both the value of each channel and any alarm conditions.

Custom-configurable screens allow specific channels to be displayed and parameters to be entered and updated.

Four relay outputs are used for alarm, shutdown, and user-defined functions. Class A, B, or C alarms and shutdowns are provided.

Modbus communication option allows for remote monitoring of all channels.



Universal Inputs

- J, K thermocouple; or 2- or 3-wire RTD inputs (with SC-RTD option).
- 0–5 V inputs that represent temperature, pressure, or other physical parameters.
- 4–20 mA inputs.

Field-Configuration

Using the front panel keypad the user can field-configure:

- Input types and units.
- Channel thresholds and trip classes.
- Relay operation modes.
- Remote displays.

A laptop computer can be used for faster field-configuration.

Remote Displays

Up to eight Dynalco IDM-200™ universal indicator displays can be connected for constant display of specific scanner channels.

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FEATURES

- Microprocessor-based with communications for remote monitoring or laptop configuration.
- 24 universal analog input channels configurable for monitoring thermocouples, voltages, and 4–20 mA inputs.
- Class A, B, or C alarms and shutdowns.
- Open thermocouple and RTD detection.
- Wide DC power range (9–38 Vdc).
- Large 4-row by 20-character alphanumeric display shows status of all channels along with channel names.
- Meter Bus (remote display bus): up to eight IDM-200 displays for dedicated display of any channel.
- Ergonomic, sealed-membrane keypad with tactile feedback.
- Rugged, front-sealed enclosure.
- DB-style connectors for clean, reliable wiring.

- Password-protected setup mode.
- CSA Class I, Division 2, Groups A, B, C, & D. (Standard and Modbus® versions).

SC-2124M

- SC-2124 with Modbus communications.

ACCESSORIES

- **SC-CBLE25MM:** 6 ft cable & terminal block for 12 inputs (2 required for 24 input system).
- **SC-CBLE25MF:** 6 ft cable & terminal block for relays.
- **SC-CBLE15MF:** 6 ft cable & terminal block for power, etc.

ALL MODELS: Options

- **SC-RTD:** Filtering and conditioning module to read up to 12 channels of 100 ohm Pt or 120 ohm Ni RTDs.
- **ETS-202:** Cold-junction compensation for thermocouples.
- **IDM-200:** 3³/₈ in. (~85.7 mm) diameter digital remote display.

SPECIFICATIONS

Scan Rate	New channel every 50 milliseconds during operation
Input Channels	<ul style="list-style-type: none"> • 24 analog input channels fully configurable for: <ul style="list-style-type: none"> • J & K thermocouples • 0–5 V • 4–20 mA (8 on-board input resistors) • 100Ω Pt or 120Ω Ni RTDs using SC-RTD optional module • Accuracy: ±0.2%FS
Relay Outputs	• 4 relays; SPDT; rated 2.5amps @ 28 Vdc / 125 Vac
Input Power	• 9–38 Vdc, 0.45 amps maximum
Sensor Power	• +5 Vdc power for cold-junction temperature sensor, ETS-202
Display/Indicators	<ul style="list-style-type: none"> • Large 4X20 alphanumeric display • Dedicated alarm and shutdown LEDs • Backlit display
Communications	<ul style="list-style-type: none"> • RS-232C standard for laptop configuration using Dynalco WinHost software • Optional SC-2124M has Modbus RTU communications.
Rear Connections	<ul style="list-style-type: none"> • All DB-style connectors on rear of unit • All field wiring is connected to DIN-RAIL mounted terminal blocks (optional)
Environmental	<ul style="list-style-type: none"> • Operating: –4 °F to +176 °F (–20° to +80°C) • NEMA 4 sealed enclosure

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