TELEDYNE
GAS AND FLAME DETECTION
Everywhereyoulook™

7200 PLUS AND 7400 PLUS CONTROLLERS

Two and four channel gas monitoring system

The 7200 Plus and 7400 Plus Controllers are designed to provide simultaneous display and alarm functions for up to four monitored variables. A graphic LCD displays monitored data as bar graphs and engineering units. Three adjustable alarm levels are provided per channel. Relay outputs allow control of beacons, horns and other alarm events. The controllers are easy to configure and user friendly. Measurement ranges in engineering units, adjustable alarm set-points, optional serial interfaces and many other features offer flexibility to meet most demanding applications. Some of the controllers utilize NEMA 4X rated enclosures and are CSA certified for combustible detection and hazardous locations. An optional RS-485 MODBUS® slave port allows up to 128 controllers to be multidropped onto a single data highway for interrogation by another MODBUS master. Other 7200 Plus options include six 5 amp SPDT discrete alarm relays per channel, 4 to 20 mA outputs and light stacks. Nonvolatile memory retains all configuration data indefinitely.

Common Markets Include:

- Petrochemical Oil and Gas
- Food and Beverage
- Pulp and Paper
- Water and Wastewater Treatment

Features

- Centralized Graphic Display and Alarm Controller
- Seamless Upgrade for Current Loop and Direct Cat Bead Detectors
- MODBUS Interfacing and Output Relay Options for Any Environment
- Compatibility with Teledyne's Full Array of Gas Detection Transmitters and Detectors
- Hazardous Location Approval for Class I, Division 2 Applications (certain units only)

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SYSTEM SPECIFICATIONS

Inputs
Sensor input PCBs are available for combustible sensor and 4 to 20 mA. All versions may be configured for 4 to 20 mA inputs.

Analog Outputs (Optional)
10 bit 4 to 20 mA output. Max load 800 ohms with nominal 24 VDC power supply

Common Alarm Relays (Standard)
Two 5 amp 30 VDC or 250 VAC resistive Form C

Discrete Alarm (Optional)
Six 5 amp 30 VDC or 250 VAC resistive Form C

Serial Port (Optional)
Master and slave RS-485 port equipped with Tx/Rx LEDs. Protocol = MODBUS RTU. 10-BaseT Ethernet with MODBUS TCP protocol

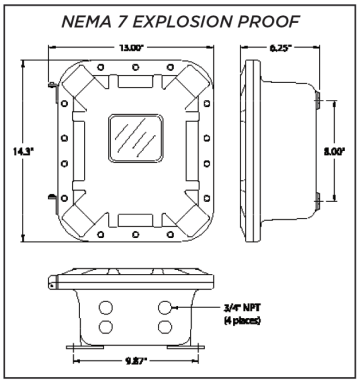
Display
128 x 64 pixel graphic LCD with backlight displays bar graphs, 30-minute trends and engineering units. Six discrete LEDs indicate alarm status for three alarms per channel

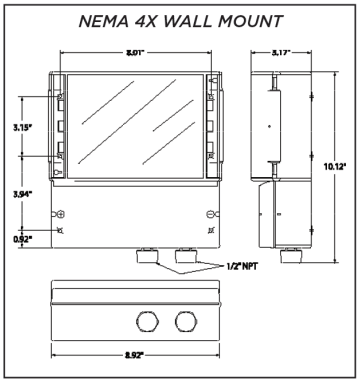
Temperature
-25°C to 50°C

Humidity
0 to 90% R.H. non-condensing

Power Supply
100 to 240 VAC or 24 VDC are standard primary power supplies. AC power source generates 24 VDC at 8 watts auxiliary power.

Housing Options
NEMA 4X wall mount CSA certified for Class I, Division 2, Groups A, B, C, D.
NEMA 7 explosion-proof wall mount for Division 1 areas
**Note: Adding Auditble Alarm or strobe lights void CSA Approval of Unit.*





APPROVALS

CSA C122.2 No. 152 performance requirements. This equipment is suitable for use in Class I, Division 2, Groups A,B,C and D or non-hazardous locations only. *Note: CSA has not approved the Controller with any of the following items installed: 100db Piezo Audible Alarm, Dual Light Stack, and Strobe Light(s).*

Complete 7200 Plus Controller

Part Number	Description	Hazard Area Approval
093-0427	7200 Plus - 2 Channel, NEMA 4X, 4-20 mA Input Board, Audible Alarm	Ordinary Location
093-0428	7200 Plus - 2 Channel, NEMA 4X, Direct CatBead Input Board, Audible Alarm	Ordinary Location
093-0620	7200 Plus - 2 Channel, NEMA 4X, 4-20 mA Input Board, Alarm Relay Board, Audible Alarm	Ordinary Location
093-0616	7200 Plus - 2 Channel, NEMA 4X, 4-20 mA Input Board	CSA
093-0617	7200 Plus - 2 Channel, NEMA 4X, Direct Catbead Input Board	CSA
093-0429	7200 Plus - 2 Channel, NEMA 7, 4-20 mA Input Board	CSA
093-0430	7200 Plus - 2 Channel, NEMA 7, Direct CatBead Input Board	CSA

Complete 7400 Plus Controller

Part Number	Description	Hazard Area Approval
093-0455	7400 Plus - 4 Channel, NEMA 4X, Direct CatBead Input Board, Alarm Relay Board, Audible Alarm	Ordinary Location
093-0456	7400 Plus - 4 Channel, NEMA 4X, Direct CatBead Input Board, Audible Alarm	Ordinary Location
093-0457	7400 Plus - 4 Channel, NEMA 4X, 4-20 mA Input Board, Alarm Relay Board, Audible Alarm	Ordinary Location
093-0458	7400 Plus - 4 Channel, NEMA 4X, 4-20 mA Input Board, Audible Alarm	Ordinary Location
093-0618	7400 Plus - 4 Channel, NEMA 4X, Direct Catbead Input Board	CSA
093-0619	7400 Plus - 4 Channel, NEMA 4X, 4-20 mA Input Board	CSA
093-0459	7400 Plus - 4 Channel, NEMA 7, Direct CatBead Input Board, Alarm Relay Board	CSA
093-0460	7400 Plus - 4 Channel, NEMA 7, Direct CatBead Input Board	CSA
093-0461	7400 Plus - 4 Channel, NEMA 7, 4-20 mA Input Board, Alarm Relay Board	CSA
093-0462	7400 Plus - 4 Channel, NEMA 7, 4-20 mA Input Board	CSA

Teledyne Gas & Flame Detection quality assurance programmes demand the continuous assessment and improvement of all our products. Information in this leaflet could thus change without notification and does not constitute a product specification. For more information, please contact us or your company representative.

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