

Model 7200 Controller

16 - 64 Channel Controller

- ⦿ Large color screen for display of trends, bar graphs, and engineering units with color indication for Faults and Alarm
- ⦿ Accepts up to 64 Analog, bridge sensor, ModBus RTU, ModBus TCP, and wireless inputs
- ⦿ Ethernet with Modbus TCP Master/Slave
- ⦿ Available wireless interface with Modbus
- ⦿ Discrete, configurable alarms with grouping, voting, and acknowledgement functions
- ⦿ Five standard SPDT 5-amp common alarm relays including Horn and Fault
- ⦿ Password protected lockout protects configuration variables during general use
- ⦿ One-year datalogging onto SD memory card recording minimum, maximum, and average values for up to one year
- ⦿ Magnetic keypad for non-intrusive interface in potentially hazardous locations
- ⦿ Webserver for remote configuration, interface, and monitoring



The Model 7200 is a highly capable, user-friendly controller ideal for centralizing display and alarm functions in critical multipoint monitoring applications. It features a large color LCD display, non-intrusive operation, data logging, and numerous communication options including wireless. The controller provides simultaneous display and alarm functions for up to 64 input channels. Display modes and I/O modules are arranged in groups of 16 for expandability in configurations from 16 up to 64 channels. The Model 7200 controller is available in four enclosures to meet the requirements of a range of application requirements.



1/2 Width and Full Length
Panel/Rack Mount



Compact Fiberglass NEMA 4X
Wall Mount



Large Fiberglass NEMA 4X
Wall Mount



NEMA 7 Aluminum
Wall Mount

Model 7200 Controller

Specifications

ANALOG INPUTS (OPTIONAL P/N 299-0030-01): 12bit 4-20mA into 150 ohms input impedance; includes +power supply terminals for each channel for routing power to two or three wire transmitters

SERIAL PORTS: Modbus Master and Slave RS-485 ports equipped with Tx / Rx LEDs

WIRELESS OPTIONS: Configured to accept wireless inputs from Gas Transmitters, ModBus inputs from a ModBus slave device, or communicate wirelessly to a compatible ModBus master device. 900MHz or 2.4GHz FHSS; 10mW – 1W Adjustable Tx Power; Div 1 and DIV 2 Antennas 256-bit Encryption; Both Master and Slave Operation; -100dBm Receiver Sensitivity.

ETHERNET PORT: Modbus TCP Master/Slave port with webserver

ALARM RELAYS

Five 5 amp 28VDC or 250VAC resistive Form C

ANALOG OUTPUTS (OPTIONAL P/N 299-0031-01): 10 bit 4-20mA output. Max load 800 ohms with nominal 24VDC power supply

DISPLAY: QVGA 320 x 240 pixel graphic LCD with backlight displays bar graphs, trends and engineering units in color. Five discrete LEDs indicate alarm status for five standard alarm relays

AVAILABLE OPTIONS: 100db Piezo Audible Alarm; Red, Amber, Blue, Green Alarm Strobe Light; Dual Strobe/85db Horn

AMBIENT TEMPERATURE RANGE: -13° – 140° F (-25° – 60° degrees C)

POWER SUPPLY: 10 – 30VDC (24VDC nominal) 12 Watts max required by Model 7200. Relay, input, and output boards increase power consumption.

APPROVALS: CSA C22.2 No 1010.1 and C22.2 No.152 for combustibles and ISA S82.02; UL 1604 / C22.2 No 213 (NEMA 7X = Division 2 Groups A,B,C,D,) EN55011 and EN61000 (CE Mark)
Model Model 7200XP 72-06 = NEMA 7 Division 1 Group B,C,D

Engineering Specification

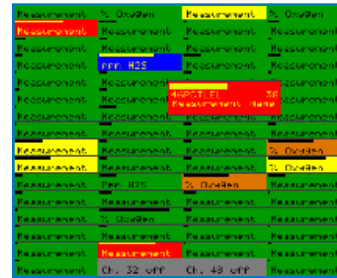
The controller shall accept up to 64 analog or RS 485 inputs (TX/RX LEDs required) and provide up to three (3) independent common or discrete alarm levels with Modbus® TCP Master/Slave web based HMI, RS-485. A QVGA Color LCD display will monitor data as trends and bar graphs with engineering units, gas name or type and alarm levels shown. A password Authorization Mode will protect system configuration. Common and discrete alarm relays will be 5 Ampere SPDT 30 VDC or 250 VAC. Alarm grouping, voting and hysteresis functions shall be standard. All configuration data will be retained in non-volatile memory during power interruptions and will be backed up by the SD card.

The display shall provide a bar graph screen for 16 channels, 24 hour trends, zone display and a combination screen. Display screens shall be available on the local display and for viewing as embedded web pages on any authorized LAN terminal. Display readout will change colors to indicate alarm status.

A Data Logger with 2 GB removable SD card will record minimum, maximum, average and data alarm states and values for up to one year, downloadable as a CSV file. System configuration will be menu-driven from the front panel keypad, a laptop or remote terminal on the LAN. An Ethernet web server will allow back-up and system restore functions. A failsafe fault circuit will detect system failure.

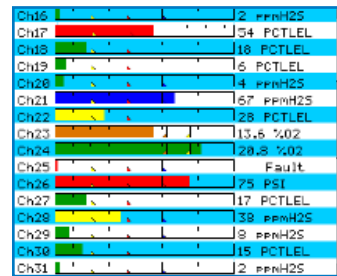
Ordering Information

1/2 width 19 inch rack / panel mount (shown below)	820-0108-01
Full width 19 inch rack mount (1, Model 7200, 64-ch).....	820-0109-01
Full width 19 inch rack mount (2, Model 7200's, 128- ch)	820-0109-02
NEMA 4X large fiberglass wall mount	820-0107-04
NEMA 4X 316 SS wall mount	820-0107-02
NEMA 7 explosion-proof wall mount	820-0107-03
NEMA 4X compact fiberglass wall mount.....	820-0107-01
600W power supply (required)	299-0037-01



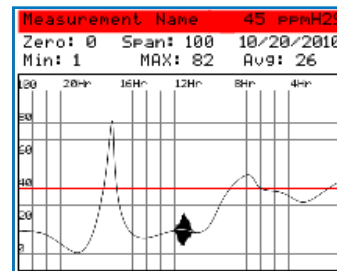
Main Data Display

Displays all active channels on the same screen. Channel configurations include 16,32,48 and 64 (shown) active channels. Cells indicate alarm status by color.



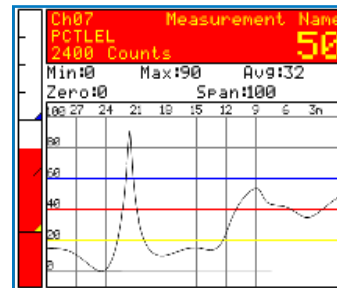
Bar Graph Display

Displays 16 channels at a time. Side scroll bar controls which group of 16 channels are visible. Bar graphs change colors to indicate alarm status.



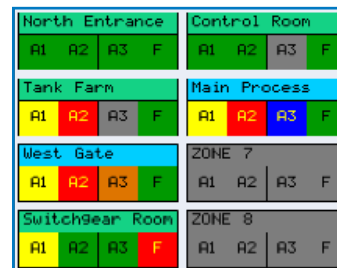
24-Hour Trend Display

Displays 1 channel at a time as most recent 24 hour trend. Top data fields include current reading, max – min – average readings over the 24 hours, range, channel ID and engineering units.



Combination Display

Displays 1 channel at a time as most recent 30-minute trend, bar graph and large engineering units. Top data fields include current reading, max - min - average readings over the 30-minutes, range, channel ID, and engineering units. Readings change color and flash on alarms. Flashing color becomes steady after acknowledge.



Zone Display

Displays all eight possible active zones. Alarm cells change colors and name field flashes indicating alarms. Allows user direct access to screen that shows which channels belong to each zone.

