12 Channel Controller

Ampcontrol's 12 Channel System Controller is a compact unit designed with relay outputs on board for alarm events and programmed response.

The 12 Channel Controller accepts inputs from any two or three wire sensor/transmitter combination that gives a 4-20mA output. Typical sensor/transmitter combinations include Ampcontrol detectors for combustible gas, oxygen, toxic gas, flame as well as temperature and humidity transmitters.

The controller has twelve 4-20mA inputs, two 4-20mA outputs and four relay outputs for common Warn, Alarm, High Alarm and Fault conditions. Three push buttons, four LEDs and a sounder provide status and control functions.

A two-line alpha-numeric display provides continuous status readouts of each monitored channel, with a choice of two user-configurable formats. A specific display mode shows all input readings and status simultaneously.

Features

+ Accommodates up to 12 gas detectors
+ Microprocessor controlled
+ Accepts inputs from combustible and toxic gas sensors, flame sensors or any 4-20mA device
+ Two-line alpha-numeric display
+ User friendly
+ Retains data on loss of power
+ Fully programmable from front panel
+ Built-in self diagnosis
+ Fan control logic
+ Software "Voting Logic" output
+ Optional RS485 Modbus® digital interface
+ Optional data and event logging

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12 Channel Controller

Specifications

Electrical Specifications

Power Requirements (including options): Note: Values of current are approximate.	240Vac, 50/60Hz, 125mA, or 110Vac 50/60Hz, 250mA, or 24Vdc, 1.5A 100mA Internal 200mA Aux output devices 1200mA Sensors
Input Channels:	12
Types of Input (One per channel): Note: With special auxiliary junction box.	4-20mA, 24Vdc Loop-powered Sensors 4-20mA, 3-wire Sensors (24 6Vdc fixed) Two-wire Fire/Flame Detection Units (See Note)
Outputs (Standard configuration):	Common Fault Relay, Common Warn Relay, Common Alarm Relay and Common High Alarm Relay, SPDT, 7A, 240Vac/30Vdc
Outputs (Zone 4-20mA output board option): Note: One output per Zone	Two Zone 0-20mA or 4-20mA source outputs into 600 Ohms (max.)
Outputs (Auxiliary relay board option): Note: One of each relay type per zone	Two Warn Relays and Two Alarm Relays, SPDT, 7A, 240Vac/30Vdc
Outputs (Individual channel relay option): Note: Two external twenty four channel relay decoder drivers can be added to provide individual Warn, Alarm, High Alarm and Fault Relays. Up to six, Eight Way Relay Modules can be connected.	Individual Warn Relays SPDT, Individual Alarm Relays SPDT, Individual High Alarm Relays and Individual Fault Relays SPDT, 7A, 240Vac/30Vdc
Outputs (Individual 4-20 mA channel output option): Note: Up to Twelve 4-20mA outputs can be added in blocks of 4 to an external panel	From Four to Twelve, 4-20mA source outputs into 600 Ohms (max.)

Visual and Audible Indicator Specifications

Liquid Crystal Display:	Backlit alphanumeric display indicates: channel, status, unit of measure, substance/area measured, previous minimum/maximum values and channel output current
Light Emitting Diodes:	Indicate status of: power, Warn, Alarm and Fault
Electronic Buzzer:	Audible alarm for Warn, Alarm and Fault

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Technical Data Sheet