

ScanAlarm

Multipoint Scanning Alarm System

Introduction

Many gas detection applications require multiple sensing locations to provide adequate area protection for plant personnel. Signals from a variety of field measurement sites are often transmitted to a central location where display and alarming functions are needed. ATI's Series C14 **ScanAlarm** Receiver provides a versatile central monitor that can be configured to meet most multipoint gas detection applications.

Features

- Monitors up to 16 analog 4-20 mA inputs from remote transmitters.
- Provides 24 VDC power for up to 16 loop-powered toxic gas transmitters or 12 3-wire combustible gas transmitters.
- Two line alphanumeric LCD provides sequential display of each channel and the alarm status for that channel. Display locks on any channel that goes into alarm.
- Remote alarm reset input.
- Two programmable alarm setpoints for each analog input plus a trouble alarm for each channel.
- Six assignable SPDT alarm relays in standard configuration, with expansion for up to 36 total relay outputs. One output relay is factory set for global alarm and one is set for system failure.
- Battery backup module available to operate the system for up to 30 minutes with the maximum number of combustible gas transmitter inputs (worst case).
- Standard RS-232/485 serial interface allows all configurations to be set up by computer and alarm events to be automatically monitored by computer. Up to 32 separate monitors can be connected to a single RS-485 communication link.
- Standard NEMA 4X wall mount enclosure. Optional panel mount configuration.



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Specifications

Analog Inputs:	16 single ended, 4-20 mA DC (Internal 24 VDC power supply for external transmitters)
A/D Conversion:	14 bit internal resolution
Relay Outputs:	6 SPDT relays standard, 28 additional open collectors for expansion relays
Relay Contacts:	10 A at 120 VAC, 5 A at 220 VAC, resistive
Serial Output:	Selectable RS-232 or RS-485, 2400 or 9600 baud
Display:	2 line x 16 character backlit alphanumeric LCD
Power:	90-264 VAC, 47-63 Hz., or 12 VDC
Alarm Setpoints:	Two independent setpoints per channel
Failure Alarm:	Activated on loss of input or -10% zero shift
Alarm LEDs:	16 LED indicators mounted on front panel
Audible Alarm:	Standard on NEMA 4X units
Temperature:	Storage: -20° to 60°C Operating: 0° to 40°C



Ordering Information

- Model C14-1 **ScanAlarm** Multipoint Alarm System complete in NEMA 12 wall mount enclosure. Base system includes 6 alarm relays.
- Model C14-2 **ScanAlarm** Multipoint Alarm System in panel mount configuration. Power supply and interface boards supplied separately.

Options

- 00-0057 Battery Backup Unit
- 00-0734 NEMA 4X Enclosure with 8 Expansion Relays
- 00-0735 NEMA 4X Enclosure with 16 Expansion Relays
- 00-0736 NEMA 4X Enclosure with 24 Expansion Relays
- 00-0737 NEMA 4X Enclosure with 32 Expansion Relays
- 00-0038 8 Relay Expansion Module, DIN Rail Mount

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