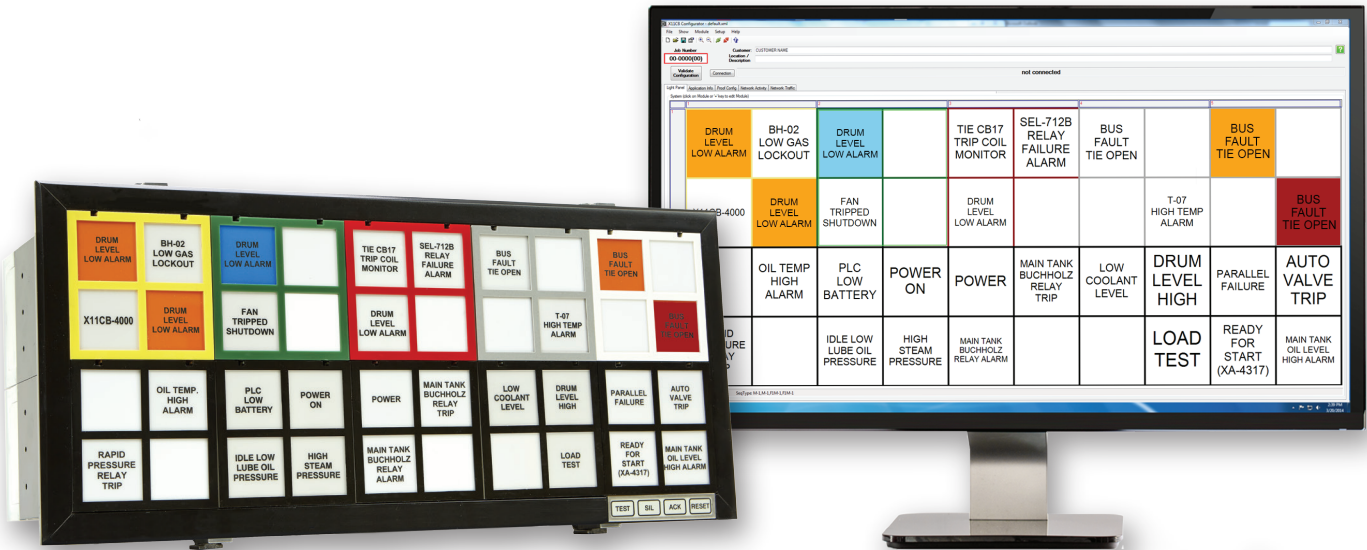


EVENT RECORDING ANNUNCIATOR

Multiplexing | Alarm Annunciation | Networking | Event Recording



Can be programmed in the field using
Ronan's Configuration Software Application

Local Monitoring Applications



Remote Monitoring with Network Transfer Applications



TECHNICAL SPECIFICATIONS

SYSTEM CONFIGURATION

Chassis:

- Up to 100 I/O Modules*
- Power Supply Filter Module
- AUX Relay Modules
- Interface and Communication Module

System Size:

- Basic Cabinet Module is 3.50 in. (88.90mm) x 3.50 in. (88.90mm)

Enclosures:

- Weather Proof
 - NEMA 4 (optional)
 - NEMA 4X (optional)
 - NEMA 12 (optional)
- Panel Mount
- Surface-mount
- 19" Rack-mount

*Multiple chassis can be connected through CAN bus to share communications capabilities up to a maximum of 100 Modules.

FEATURES

Alarm Display LEDs:

- Minimum of 4 LEDs per window
- Colors: red, green, yellow, white and blue

Built-In Diagnostics:

- Hardware startup
- System failure/status

Event Time Stamping to 1mS resolution with date and time of day correlation when an external time source is provided

- IRIG-B
- NTP Server

Stores latest 100,000 events in distributed, non-volatile memory of Interface Module.

- Alarm history download capability to open source SQL database

Fully configurable via TCP/IP over a network (LAN) using the Ronan Configuration Software

(software provided)

All ISA alarm sequences available and field configurable

Compatible with Ronan's X1000 SER/HMI and X110 Remote Alarm Annunciators

Can interface to PLC/DCS systems using Ronan's X200 Universal Communication Module

PUSHBUTTON INPUTS

- Front Bezel Pushbuttons
- Rear Input Terminals
- via Network Interface
 - Silence
 - Acknowledge
 - Reset
 - First-Out Reset
 - LED Test

SYSTEM VOLTAGE

- 24 VDC via optional Power Supply

INTERFACE MODULE

Communications with the SER/HMI or a Host via a 10/100 Base-T Interface via:

- Ronan Proprietary Protocol
- ModBus/TCP Protocol
- DNP 3.0 Protocol via Ronan's X200 REC-UCM-2 (Optional)
- Alarm module monitoring generates system error with missing module.
- Continuous alarm module configuration monitoring. (Verifies each alarm module for correct configuration and reconfigures improperly configured modules).

ALARM MODULE

(4) Opto-Isolated Channels per module featuring:

- 1500V Isolation to Ground and Channel-to-Channel
- Wetted or Dry Contacts (Selectable by Module)
 - VDC: 24, 48 or 125
 - VAC: 115
- Normally Open/Normally Closed Contact Sensing (Field Selectable Configurable by Channel)
- Field Contact Debounce Filter with:
 - Filters for each field contacts normal and alarm transition
 - Integrating/non-integrating filter types
 - Units in milliseconds, seconds, and minutes

ENVIRONMENT

- Operating Temperature
 - 0 to 60° C (32 to 140°F)**
 - Storage Temperature
 - 40 to +85°C (-40 to +185°F)
 - Humidity 5-95% RH, non-condensing
- ** Operating at temperatures over 50°C for more than a few hours at a time will shorten the life of the system. The average temperature over life of the system should be <50°C, but never exceeding 60°C

WARRANTY

Ronan warrants equipment of its own manufacture to be free from defects in workmanship and material under normal conditions of use and service, and will replace any component found to be defective, on its return, transportation charges prepaid, within three (3) years of its original purchase. This warranty carries no liability, either expressed or implied, beyond our obligations to replace the unit which carries the warranty.

Extended Warranties are available. Consult Factory.

