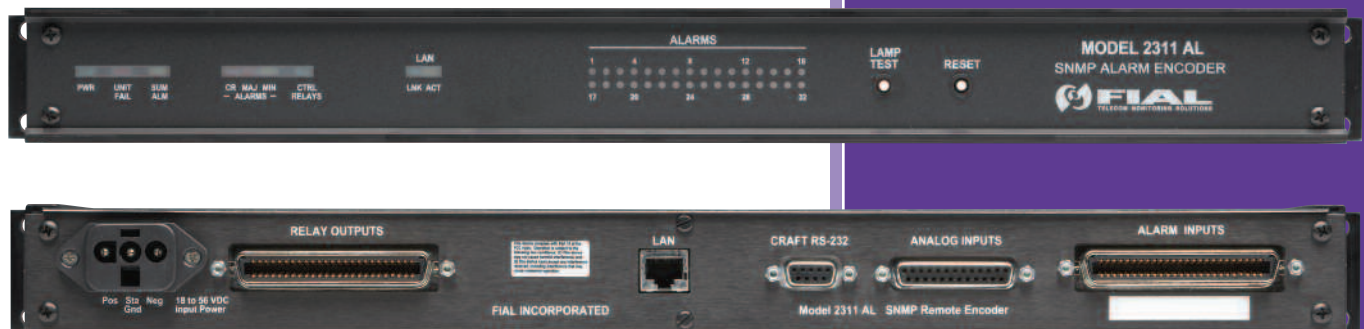## SNMP Alarm Encoder
Model 2311 AL

- **Add SNMP V2 Alarms and Controls to existing IP network**

- **Configure, control and view local status over the Web, HTTPS, SSL**

- **Fully compatible with existing LAN/WAN IP networks**

- **Supports actual and virtual alarms with traps and tables**

- **Allows local control via sets**

- **Optionally provides analog voltage table with threshold alarms**

- **32 front panel alarm LEDs**

Key Features:

- SNMP V2 Alarm and Control

- Configurable over the IP Network

- Ethernet 10/100baseT Port

- Optional Modem Connectivity

- 32 Opto-isolated Alarm Inputs

- Up to 16 Virtual Alarms

- 16 Control Outputs

- 1 Alarm Summary Output

- 16 Single-ended (8 Differential) Isolated Analog Inputs (optional)

- Wide Range DC Power Input

Model 2311 AL Characteristics

Ethernet Interface

LAN Port | 10/100baseT
RJ-45 Female

Performance Data | Packets, buffers, comm errors (MIBII)

LED Indicators

Power (green)
Unit fail (red)
Summary alarm (amber)
Critical alarm (red)
Major alarm (red)
Minor alarm (amber)
Control asserted (green)
LAN port activity (green and amber)

Craft Configuration Port

9-pin female D-Sub (DB9F) shielded | RS-232, 9,600 baud
8/N/1, no parity, no flow control
Embedded ethernet configuration program

Power

Input Power Range | 18 to 56 VDC, floating
Power Consumption | 4 to 7 Watts
Power Connection | Barrier Strip, three #6 screws
(+, -, chassis ground)

Environmental

Operating Temperature | 0° to +50° C
Humidity Range | 5% to 95%, Non-condensing
Storage Temperature | -40° to +70° C

Physical Characteristics

Shelf Size | 1.75" H (1 RU), 19" W, 11" D
Rack Mounting | Flush, 2" or 5 1/8" projection
Shelf Weight | 5 pounds

Virtual Alarms

Up to 16 virtual alarms can be created by Boolean logic combinations of external alarms, control states and analog threshold violations

Alarm Inputs

50-pin female Centronics/Champ | 32, Opto-isolated, 22 kΩ to station battery
Programmable as Alarm or Status
Programmable alarm delay before assertion

Control Outputs

50-pin female Centronics/Champ | 16, Form C relays
1 Alarm summary output, Form A relay
Momentary or Latching
Programmable NO or NC
1 amp max, DC; 0.6 amp max, AC

Analog Voltages (optional, field upgradeable)

25-pin female D-Sub (DB25F) shielded | 16, ground-referenced, single-ended inputs
(use pairs for up to 8 differential inputs, can use both single-ended and differential)
Each input has: 5 plus or minus ranges (0 to 7.5, 15, 30, 60 or 120 VDC);
Polarity and range set via software;
52 kΩ to ground, low pass filtered.
Sensor Power (+5 VDC) Output

Fial Incorporated has developed a nationwide reputation for the design of microprocessor-controlled hardware and the development of software for custom applications at a competitive price.

We have been in business since 1978 with one basic objective: to provide functional, cost-effective solutions while maintaining strong communication links with every customer.

Fial Incorporated's products encompass a wide range of telecommunications alarm monitoring equipment and support multiple protocols, including SNMP, TL1, MCS-11, Farscan, Badger, TBOS, ELMC and others. Our devices include protocol converters, remote encoders, synchronous packet data bridges, baseband and IF protection switch products, and other specialized equipment.