

MCS-11 Alarm Encoder Model 2310

- Remote alarm encoder (RTU) using MCS-11 protocol
- Two telemetry port connections available (both have RS-422 synchronous and RS-232 asynchronous capability) with bi-directional filtered bridging
- Accepts alarm contact closure (and optional analog voltage) inputs
- Provides remote control relay closure outputs
- 1 RU high
- Multiple rack mounting positions
- 18 to 56 VDC floating power supply

Key Features:

- RSS or RDS Operation
- Built-in Telemetry Bridging
- 32 Opto-isolated Alarm Inputs
- 16 Control Outputs
- 16 Single-ended (8 Differential) Isolated Analog Inputs
- Wide Range DC Power Input
- Proven MCS-11 Compatibility
- Synchronous & Asynchronous MCS-11 Capability



Model 2310 Characteristics

Telemetry Channel Interface

Two Communication Ports	Each Synchronous or Asynchronous MCS-11
15-pin female D-Sub (DB15F) shielded	300 to 64,000 bps
Port 1	DTE RS-422 or RS-232
Port 2	DTE RS-422 or RS-232
	DCE RS-422 only, selectable clock rates
	(DTE accepts clock, DCE supplies clock)

Craft Configuration Port

9-pin female D-Sub (DB9F) shielded	RS-232, 4,800 baud, 8/N/1
	no parity, no flow control
	Embedded text configuration program
	Windows configuration program

LED Indicators

Unit power and unit fail status
 Alarm summary and Port TX
 & RX activity

Power

Input Power Range	18 to 56 VDC, floating
Power Consumption	4 to 9 Watts
Power Connection	Barrier Strip, two #6 screws
	(separate chassis ground strap)

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

Alarm Inputs

50-pin female Centronics/Champ	32, Opto-isolated, 22 kΩ to station battery
	Programmable Alarm or Status
	Programmable delay
	Programmable RSS or RDS mode

Control Outputs

50-pin female Centronics/Champ	16, Form C relays
	RSS 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

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 that support multiple protocols including SNMP, MCS-11, TBOS, ELMC and TL-1. Our devices include protocol converters, remote encoders, synchronous packet data bridges, baseband and IF protection switch products, and other specialized equipment.

