

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

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|--------------------------------------|------------------------------------------------------------------------------------|
| 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

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|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| 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

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|-------------------|-----------------------------------------------------------------|
| 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

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

Physical Characteristics

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|---------------|--------------------------------|
| 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

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

Control Outputs

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|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| 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 |
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Analog Voltages (optional, field upgradeable)

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|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 k Ω to ground, low pass filtered |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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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.

