

## 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

Port 1

15-pin female D-Sub (DB15F) shielded 300 to 64,000 bps Port 2

**Craft Configuration Port** 

9-pin female D-Sub (DB9F) shielded

**LED Indicators** 

**Power** Input Power Range **Power Consumption** 

**Power Connection** 

**Environmental** 

**Operating Temperature Humidity Range** Storage Temperature

**Physical Characteristics** Shelf Size

Rack Mounting Shelf Weight

**Alarm Inputs** 

50-pin female Centronics/Champ

**Control Outputs** 

50-pin female Centronics/Champ

Analog Voltages (optional, field upgradeable) 25-pin female D-Sub (DB25F) shielded

> (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

> 16, ground-referenced, single-ended inputs

52 k $\Omega$  to ground, low pass filtered

Each Synchronous or Asynchronous MCS-11

DTE RS-422 or RS-232 DTE RS-422 or RS-232

DCE RS-422 only, selectable clock rates (DTE accepts clock, DCE supplies clock)

RS-232, 4,800 baud, 8/N/1 no parity, no flow control

Embedded text configuration program Windows configuration program

Unit power and unit fail status Alarm summary and Port TX

& RX activity

18 to 56 VDC, floating

4 to 9 Watts

Barrier Strip, two #6 screws (separate chassis ground strap)

 $0^{\circ}$  to  $+50^{\circ}$  C 5% to 95%. Non-condensing

 $-40^{\circ}$  to  $+70^{\circ}$  C

1.75" H (1 RU), 19" W, 11" D Flush, 2" or 5 1/8" projection

5 pounds

32, Opto-isolated, 22  $k\Omega$  to station battery

Programmable Alarm or Status

Programmable delay

Programmable RSS or RDS mode

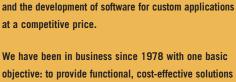
16, Form C relays RSS summary output, Form A relay

Momentary or Latching Programmable NO or NC

1 amp max, DC; 0.6 amp max, AC

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.



Fial Incorporated has developed a nationwide reputation

for the design of microprocessor-controlled hardware

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