

M210 DISPLAY

SPECIFICATIONS

- Signal Conditioning
- Digital display meter
- Analogue output
- Casing mounted ABS in option

Features

- Analog Output: $\pm 10V$
- Red LED Display: 2,000 count
- High Bandwidth on analogue output (1 000 Hz)
- Low Noise Level

Applications

- Instrumentation Laboratory
- Test stand
- Process monitoring
- Rack Mounts

The **M210** electronic is an all-in-one signal conditioning and display meter that adapts to most strain gauge sensors. The **M210** device powers the sensor, amplifies the signals received from the sensor, and displays the value in real time.

The analog output is compatible with control systems and data acquisition cards. A power supply filter helps protect against incorrect voltage supply. The **M210** features high bandwidth and low noise level.

The large high visibility $\pm 2,000$ count LED display allows quick reading of the measurements.

Optionally, the **M210** offers many options including RTC switches and can be housed in an **ABS** case.

PERFORMANCE SPECIFICATIONS

All values are typical at temperature 23°C

General Characteristics

Dimensions (H x L x W)	48 x 96 x 155 mm [1.9 x 3.8 x 6.1 in]
Panel Cut-out	92 x 45 mm [3.6 x 1.8 in]
Operating Temperature	0° C to 50° C [32 to 122° F]
Storage Temperature	-40° C to 85° C [-40 to 185° F]
Relative Humidity	<95% at 40° C [104° F]
Rear panel connectors	
Weight	600g [1.3lb]

Electrical Characteristics

Standard Operating Power Voltage	115/230 Vac \pm 10%, 50 to 60 Hz
Power Supply Filter with Overvoltage Protection	
Optional Operating Power Voltage	12, 24, Vdc
Consumption	6VA
Sensor Excitation	10Vdc, 50mA maximum (\pm 5V) (12Vdc with option CD)
Sensor Sensitivity	10 to 1000mV F.S.

Amplification

Span	10 to 1000
Analog Output	10Vdc \pm 0.05% Full Scale (FS)
Analogue output accuracy	\pm 0.01% FS
Bandwidth at -3dB	1kHz
Noise Level	<10mV peak to peak

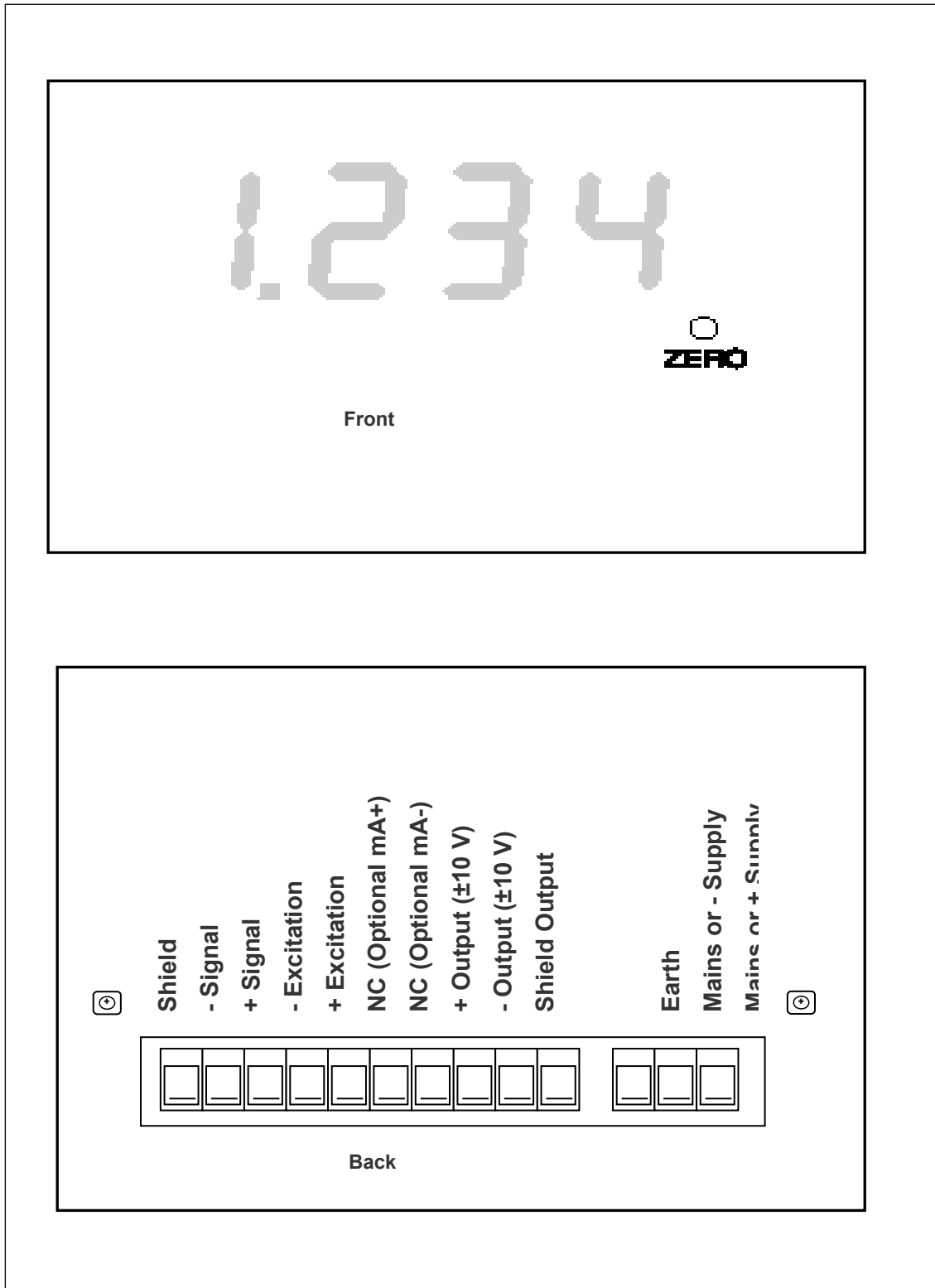
Display (1)

Type	Red LED Display \pm 2000 count display, 14mm
Display accuracy	0.2% F.S.
Conversion Rate	2.5 readings/second

Notes

1. The display works as an analogue output copy. If a calibration test is needed, it should be done thru the analogue output which is more accurate, and not with a display check only.

DIMENSIONS & WIRING SCHEMATIC



M210 DISPLAY

OPTIONS

12	: Excitation 12 Vdc
24	: Excitation 24 Vdc
4-20	: Analog Output Current 4 to 20mA
AL2	: Two adjustable threshold levels by internal relay
ABS	: House in ABS Case

Type of sensor

Wheatstone bridge sensors	
D	: Position sensor LVDT
CD	: Torquemeter type CD1140; CD9510
G	: Pressure sensor
N	: Potentiometric position sensor

ORDERING INFORMATION

