

## 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 (STD)	115/230 Vac $\pm$ 10%, 50 to 60 Hz
Power Supply Filter with Overvoltage Protection	-
Optional Operating Power Voltage (DC)	10 to 30 Vdc
Consumption	6 VA
Sensor Excitation	10 Vdc, 50 mA maximum ( $\pm$ 5V) (12Vdc with option CD)
Sensor Sensitivity	10 to 1000 mV Full Scale

**Amplification**

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

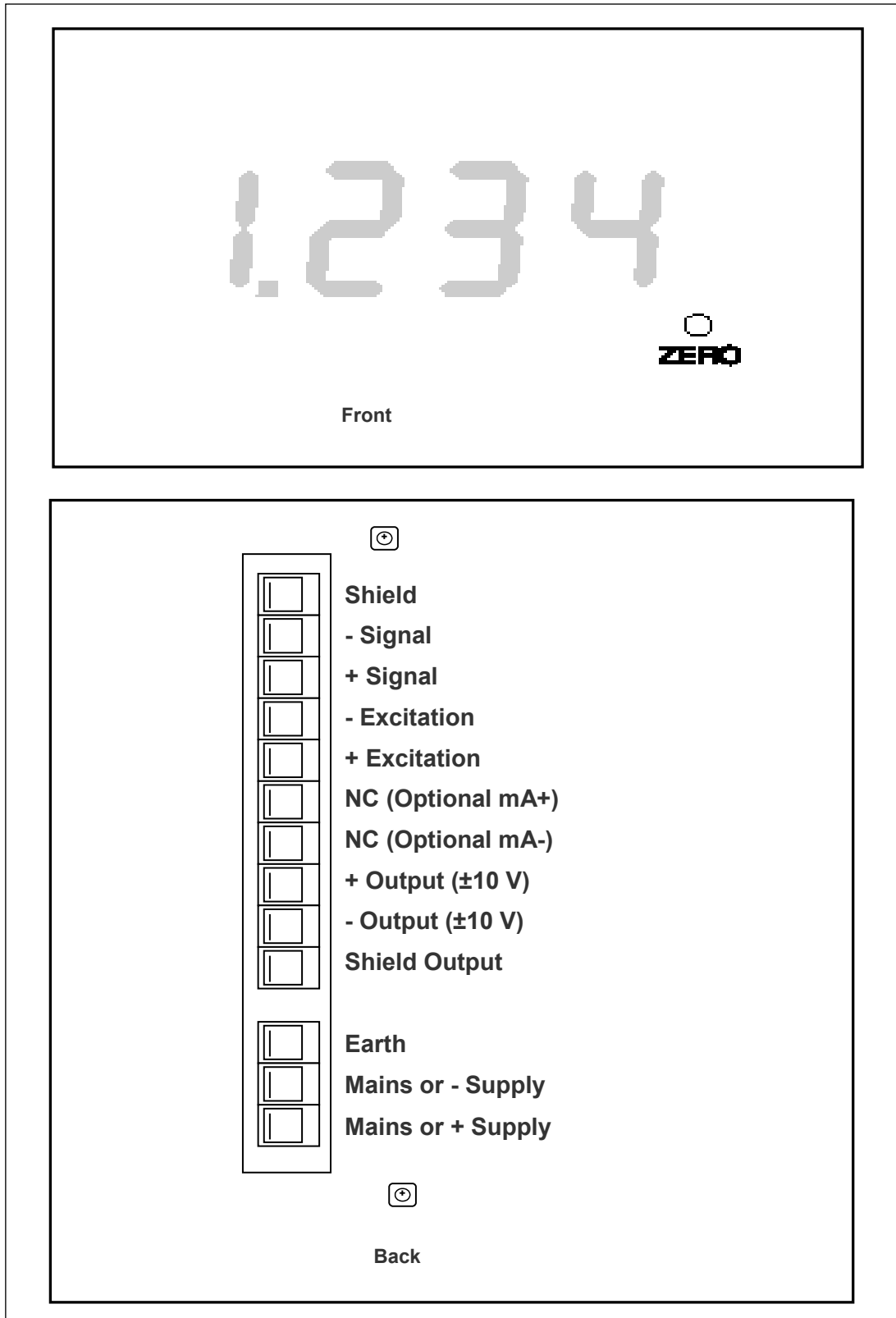
**Display (1)**

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

<b>DC</b> : Excitation 10 to 30 Vdc
<b>4-20</b> : Analog Output Current 4 to 20mA
<b>AL2</b> : Two adjustable threshold levels by internal relay
<b>ABS</b> : House in ABS Case

#### Type of sensor

" " : Wheatstone bridge sensor
<b>CD</b> : Torquemeter type CD1140; CD9510

### ORDERING INFORMATION

M210 STD /CD/ABS

