

The MTN/6200 Display Module is designed for use with the MTN/6000 Vibration Monitoring System to display the outputs from up to 12 system modules in the appropriate engineering units. Power to the Display Module is supplied from the MTN/6000 rack power supply and is indicated by a panel LED. A rotary switch selects the channel for display and also enables the setting of alarm levels according to the position of a three-way switch on the signal conditioning module. A BNC monitor socket provides a signal proportional to the selected module output to enable readings to be stored and analysed in a data collector.

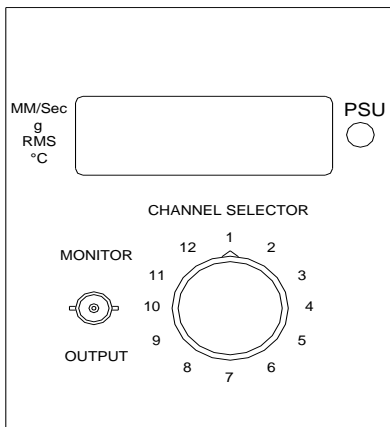
## MTN/6200 SERIES Display Module

## Applications

- Multi-channel selection
- 3½ Digit LCD display
- Output to Data Collector
- Low cost module

## Technical

|                   |  |
|-------------------|--|
| Input             | From MTN/6000 system signal conditioning modules   |
| Power Supply      | MTN/6000 power supply<br>Power supply indicator LED  |
| Display           | 12.7mm, 3½ digit LCD, 199.9 maximum reading.<br>Display units, g, mm/s, mm, or °C to be specified. |
| Channel Selection | 12 position rotary switch.   |
| Buffered Output   | BNC socket for selected channel.<br>Accelerometers raw AC signal                                   |
| Construction      | Eurocard, 100mm x 160mm with 64 pin DIN41612 edge connector.                                       |
| Temperature       | 0 to 70°C  |



## Alarms

A fixed Transducer Integrity alarm and two pre-settable vibration alarm circuits operate local panel indicators and relay contacts for remote alarm functions. The vibration alarms have adjustable delays to avoid nuisance tripping on machine start-up and can be set for either latching or non-latching modes. A facility for remote alarm inhibit and remote alarm reset is also provided.

A range of high and low pass filters, set via switches, eliminate unwanted input signals.

The module can be configured via links to display acceleration in g, velocity in mm/s or displacement in  $\mu\text{m}$ . Signal conversion is true RMS as standard but peak or peak-to-peak can be specified at time of order.

Standard Configurations are as follows:

MTN/6100v – 0-20mm/s or 0-200mm/s RMS, 10Hz – 1 kHz

MTN/6100g – 0-2g or 0-20g RMS, 10Hz – 10 kHz

MTN/6100d – 0-20 $\mu\text{m}$  or 0-200 $\mu\text{m}$  peak-to-peak, 10Hz – 500Hz.

Alarm functions are set: -TDX OK – LED & relay non-latching, normally closed.

AL1 & AL2 – LEDs & relays latching, normally closed.

## Alarm Function

Transducer Integrity (TDX OK) checks accelerometer bias level. LED extinguishes when a transducer or cabling fault occurs and outputs are inhibited if this state exists.

AL1 and AL2 alarm levels adjustable over full range via front panel potentiometer and 3-position switch. Warning LEDs illuminate when preset levels exceeded.

Alarm level monitor to display or to 0-10V output selectable via link.

All three alarms have normally energized (fail safe) relays, which de-energize on alarm

Relay contacts selectable N/O or N/C via links.

Relay & LEDs non-latching selectable via links.

Relay & LEDs latching selectable via links.

LEDs latching and relays non-latching selectable via links.

Latch reset via local panel switch

Alarm relay rating 240V AC, 1A

AL1 & AL2 Alarm delay adjustable 5 – 45sec. via potentiometer.

Remote alarm reset by external momentary switch connected to MTN/6000 rear terminals.

Remote alarm inhibit (opto-isolated) by application of 5 to 24V DC to MTN/6000 rear terminals