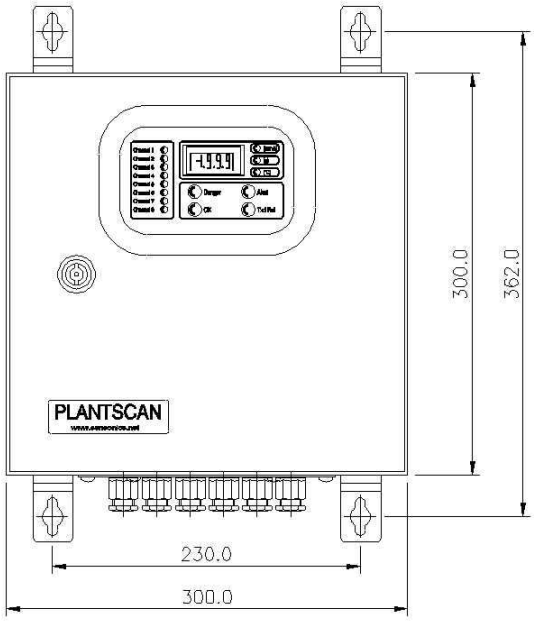
TECHNICAL INFORMATION

PREDICTIVE MAINTENANCE SYSTEMS

SENSONICS LTD

PLANTSCAN

MC9601 – MULTICHANNEL CONDITION MONITOR



- MONITORS VIBRATION AND TEMPERATURE LEVELS.
- 2, 4, 6 or 8 CHANNELS SCANNED (MULTIPLEXED).
- IDEAL FOR EARLY WARNING OF BEARING FAILURE.
- CONTINUOUS 4-20mA OUTPUT FOR EACH CHANNEL.
- ADJUSTABLE DUAL ALARM LEVELS FOR EACH CHANNEL.
- DISPLAY INDICATES MEASURED AND ALARM LEVELS.
- SWITCHED DATA COLLECTOR SIGNAL FROM BNC SOCKET.
- HOUSED IN RUGGED IP66 WALL MOUNTED ENCLOSURE.

The PLANTSCAN MC9601 Machine Health Monitor has been designed to provide high integrity, cost effective multi point protection for rotating machinery of all types including turbines, motors, fans, pumps, and compressors, etc.

By scanning each channel for approximately five seconds, it is ideally suited to applications where constant surveillance on a number of points is required to protect machinery against sudden deterioration in condition and avoid costly breakdowns.

PLANTSCAN can also be used as a switch box to facilitate data collection by a portable analyzer/data collector, by means of the BNC connector and 8 way rotary switch inside the unit.

PLANTSCAN - MC9601 – MULTICHANNEL CONDITION MONITOR

The monitor is housed in a steel IP66 wall mounted enclosure. The level of each channel is indicated on the display as it scans through, this is indicated on the channel LED's.

The dual (pot adjustable) alarm levels for each channel are displayed by pressing the A1 or A2 button with the channel indicated by the selector switch.

3 off volt free changeover relays (A1, A2 and A3) are common for all channels on the standard unit, or as an optional extra individual relays for each channel can be provided. The status is indicated on the front panel by the danger, alert, and TXD OK LED's illuminating, these can be reset by depressing the reset button. An alarm defeat function is field selectable to allow the plant to continue running once the fault has been acknowledged.

In the event of a faulty transducer, the TXD fail LED will illuminate and as the faulty channel is scanned the OK LED will extinguish.

The units of measurement are indicated by the LED's to the right of the display.

TECHNICAL SPECIFICATION

Input	2 Wire ICP Type Accelerometer (100mV/g) RTD Type Temperature Sensor
Monitoring Mode	Acceleration - g RMS Velocity - mm/sec RMS Temperature - degrees Celsius
Ranges (Factory Set)	0-1g, 2g, 5g, 10g, 20g (Acceleration) 0-10mm/s, 15mm/s, 20mm/s, 25mm/s (Velocity) 0-100°C, 150°C, 200°C, 250°C, 500°C (Temperature)
Outputs	1 x current output (4-20mA) per channel from terminal blocks. 1 x buffered raw transducer signal from BNC socket channel selectable from rotary switch.
Alarms	A1 (Hi) and A2 (Hi-Hi) individually set via potentiometers for each channel. A3 transducer integrity alarm. Reset button on panel (alarm inhibit), field selectable TXD alarm defeat.
Relays	3 x change-over contacts A1 and A2 and A3 common for all channels, or optional individual relays for each channel. Normally open or closed, latching, normally energized. Rated to 0.5A @ 110V AC and can have a delay of up to 5 seconds.
Filters	High and low pass 12dB/octave. 10 Hz - 1 KHz.
Sample Rate	Approximately 5 seconds per channel.
Formats	2, 4, 6 or 8 Channel Vibration and/or Temperature.

SENSONICS

Sensonics Ltd
Northbridge Road
Berkhamsted
Herts, HP4 1EF
United Kingdom
Tel: +44 (0)1442 876833
Fax: +44 (0)1442 876477
www.sensonics.co.uk