

# MLS 2000 Technical Specifications

## Transmitter

Frequency: one of 64 Frequencies in the 433.125 to 434.7 MHz range  
Power: 10mW (+10dBm)  
Modulation: Narrow Band FM  
Frequency Stability is crystal controlled  
Duration of Transmission is approx 100ms every 2 minutes.

## Receiver

Frequency: Synthesised, one of 64 values as above  
Sensitivity: -116dBm at 12dB SINAD  
Adjacent Band Rejection: -63dBm at +/- 25kHz  
The transmission frequency is a licence free allocation, to ETSI 300 - 200 standard.

## Base Station

Standard industrial PC with flat screen LCD. All steel screened enclosure  
10GbHDD, 128MHz SDRAM, 133MHz Processor, Parallel Port for local printer,  
Internal Network Card, Outlets for Voice Auto-Dialler and second receiver.

## UPS

Battery and charger to give approx 2 hour hold up of power to base station, signal processor and receiver.

## Radio Modem

Frequency: 458Mhz band  
Power: 500mW  
Duration of transmission: as demanded  
Range: approximately 3 to 20km depending upon terrain.

## Standard Temperature Probes (T-Type Thermocouple)

Tolerance Value: +/- 0.5°C

## PT100 Temperature Probes

Temperature °C	Class A tolerance °C	Class B tolerance °C
-200	0.55	1.3
-100	0.35	0.8
0	0.15	0.3
100	0.35	0.8
200	0.55	1.3
300	0.75	1.8
400	0.95	2.3

## O<sub>2</sub> Probes

Fuel cell Sensors generation 0 - 10V output  
Range: 0 - 100%  
Tolerance Value: +/- 2%

## CO<sub>2</sub> Probes

NDIR OEM module  
Range 0 - 7%  
Tolerance at calibration: 0.35% @ 5%

## Relative Humidity Probes

Vaisala Humitter Sensors  
Range: 10% - 95%  
Tolerance Value: +/- 2% of range

## Differential Pressure Probes

Range: + or - 0 - 50 Pascal  
Tolerance Value: +/- 2% of range



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