

# EMS Industries PTY Ltd

## "BEST IN CLASS"

Our mission as EMS Industries is to provide professional competitive solutions with excellence to meet the needs of our clients in the realms of technology, product development and system design.



Telemetry Systems

Measuring and Monitoring Systems

Turnkey communication product development

Embedded System design

Software development

3-D CAD Design

Telematics Systems

Innovation in the development of electronic and mechanical devices

# OUR PRODUCTS

WE DESIGN, MANUFACTURE AND SUPPLY QUALITY PRODUCTS TO THE MINING, RAILWAY AND TRANSPORT INDUSTRY

SERVICES ARE ALSO PROVIDED TO SPECIALISED ELECTRONIC, SOFTWARE AND MECHANICAL FIELDS

## End Of Train Systems

The Telemetry system for air brake and vacuum trains consists of three units: the Cab Unit, Rear Unit and the Battery Charger.

Once the system is correctly connected to the train's brake pipe, air pressure or vacuum will be automatically monitored and displayed on the Cab Unit via an RF link.

### PTS102 Portable CAB Unit

The portable Cab Unit comprises of an enclosure, radio, battery, controller electronics, switches, antenna, graphical display and communication port.

#### FEATURES

- Display pressure or vacuum
- RS232 port to communicate to ancillary Systems
- Alarms and logging
- Upgradable to:
  - Communication with Track Side Equipment
  - "Train Status Aid" for train drivers. Is the train complete?



### PTS102 Fixed CAB Unit

The fixed Cab Unit is a compact version of the PTS102 portable Cab Unit without a battery

#### FEATURES

- As per portable unit
- Alerting driver of possible train separation during transit
- Upgradable to:
  - Communication to Track Side Equipment
  - Rear Emergency Brake Application
  - GPRS based tracking of GPS location and status



### PTS103 REAR Unit

The Rear Unit comprises of a buffer clamp, antennae, enclosure, radio, battery controller electronics, pressure/vacuum transducer and GPS module

#### FEATURES

- LED display
- High Visibility Beacon
- Alerting driver of possible train separation during transit
- Upgradable to:
  - Communication to Track Side Equipment
  - Rear Emergency Brake Application
  - GPRS based tracking of GPS location and status



## Train Communication System

The EMS Industries Train Communication Systems provide an integrated and comprehensive solution for the General Freight Business (GFB) environment. These solutions consist of enclosures, internal wiring, communication units, power supplies and related connectors.

### Train Communication Enclosure

An enclosure to mount and secure the communication radio, Telemeter Cab Unit power supply, and wiring.

#### FEATURES:

- Loco Radio outer box
  - Steel outer housing with support brackets
  - Back cable cover plate
- Loco radio Inner box
  - Steel frame and front panel
  - Power supply unit. Input: 60-165 VDC Output: 13.8 VDC 12A
  - Harnesses, connectors and loud-speaker



### 19i Rack with slides

The EMS Industries 19" rack consists of an inner box fitted to a 19" tray. Roller slides are mounted to the sides of the tray allowing easy access to connectors located at the back of the enclosure.

#### FEATURES:

- Steel outer housing with lids
- 19i Front panel and handles
- Power supply unit: Input: 60-165 VDC Output: 13.8 VDC 12A
- Harnesses and connectors
- Slides



### CAB Unit & Radio Remote

An enclosure to mount and secure the communication radio and telemeter remotely.

#### FEATURES:

- Steel housing with Telemeter Remote Head blanking plate
- Radio Mic. Bracket
- Universal power connector 12V DC
- Loud-Speaker
- Mounting brackets for the EMS Industries remote Head Telemeter.
- Harnesses and connectors



## Other Products

Established in 1998, EMS Industries (Pty) Ltd has supplied numerous products and solutions to various industries. Solutions that meet the needs of our clients, professionally and with excellence.

Here are some examples of products developed over recent years.

### Universal Display

The Panel PC is equipped with single board processor and screen encapsulated in an ergonomically design enclosure. The Panel PC is a standalone unit ready to be mounted in a train console or control panel.

#### FEAUTES:

- Processor and screen
- Keypad and navigation bar
- Emergency switch
- USB Ports
- Power supply
- Embedded software



### Flasher Unit

The EMS Industries Flasher Unit (YFU-A) consist of a 15 LED cluster mounted on a sealed enclosure.

#### FEATURES:

- LED Cluster
- Sealed enclosure
- On Off switch
- Charger connector
- Battery
- Accessories:
  - Charger



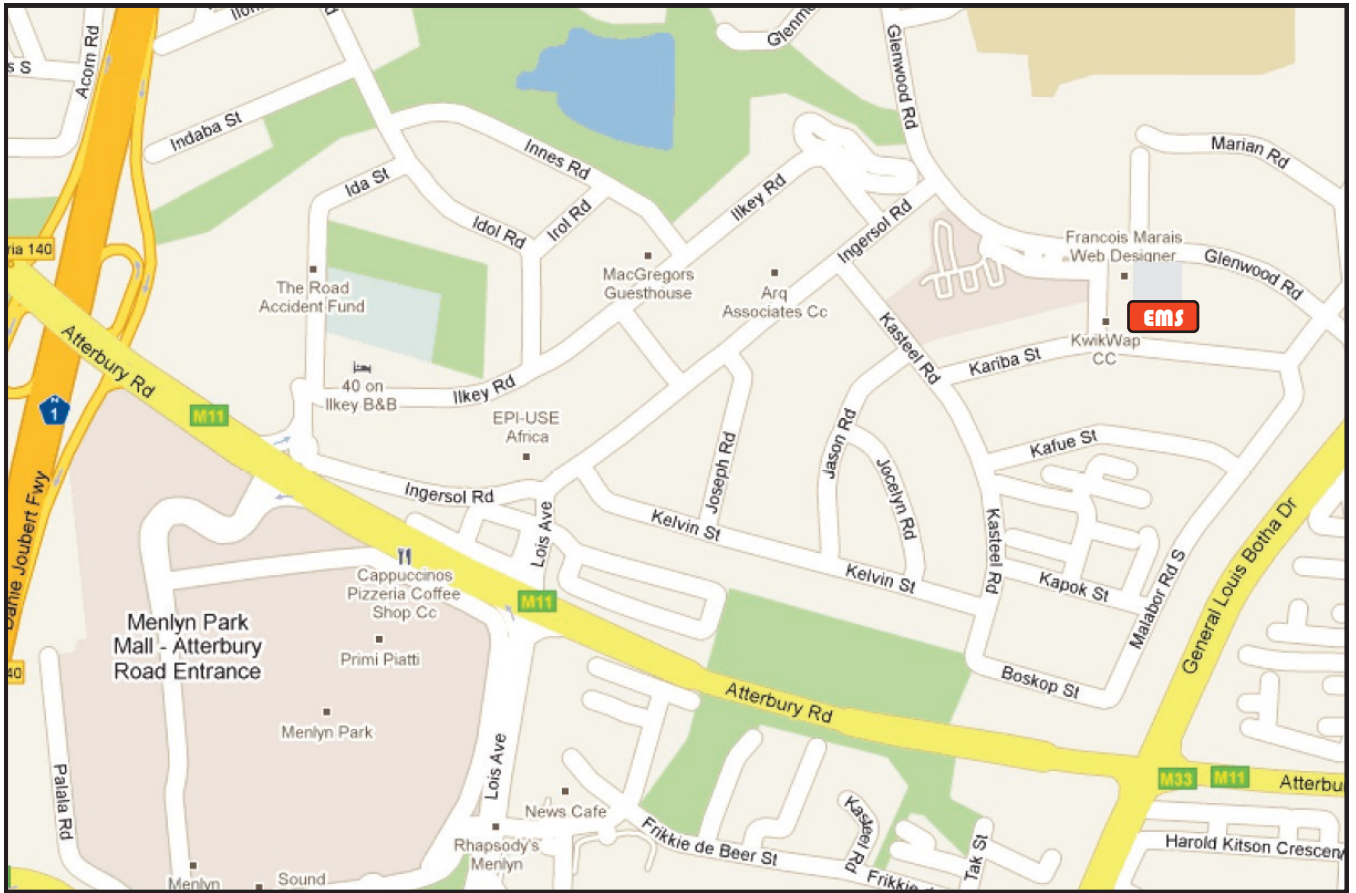
### Ethernet/GPRS Gateway

The EMS Industries Network Gateway is ideally for the monitoring and management of remote systems. It allows for supervision and remote diagnosis of systems, before dispatching service personnel.

#### FEATURES:

- Network Gateway and communication ports
- Supervisory PCB
  - GSM Modem
  - GPS Module
  - Real Time Clock and I/O's
- Status LED indication





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