

Remote Monitoring

Objective

To provide a simple and flexible method to monitor the status of equipment on the street using an outstation and dedicated in station software.

Features:

- Interfaces to a wide range of controllers
- Can provide information on the status of the controller and associated detectors and signals
- Remotely reports specific fault types.
- Can be set up to periodically interrogate and report on the status of all connected sites.
- Easy to use address book format for sites.
- Connections to site may be by PSTN, GSM, IP network or any other widely used communications facility.
- RM Communications to out station may be shared with other services for cost saving.
- In station software may be run manually or automatically.
- Programmable auto disconnect when no messaging for cost saving.
- All messages can be logged and saved to files for back up or later review for audit purposes.

- Messages can be filtered to separate out particular information.
- Selected messages may be forwarded to a separate user(s) by email.
- In station software password protected with admin and user access.
- Easy out station software upgrade by remote update

SPECIFICATION

The Microsense RM system is an IP based data acquisition system. While initially aimed at equipment condition monitoring by means of internally defined message codes it will be upgraded to process and report on traffic data gathered from equipment attached to the out station.

A simple system comprises of an in station computer attached to a modem or network and running a software application, one or more out stations typically but not necessarily associated with a traffic controller and running firmware to control communications and acquire and process data which is reported via an out station modem or network link.

The IP based communication protocol gives a relatively simple route to adding a UTMC interface to the RM system. This would allow the data reported from the field to pass through the UTMC database where it could also be made available to others before then being passed to a common in-station. This would offer the user the benefits of i) a single standard interface for all

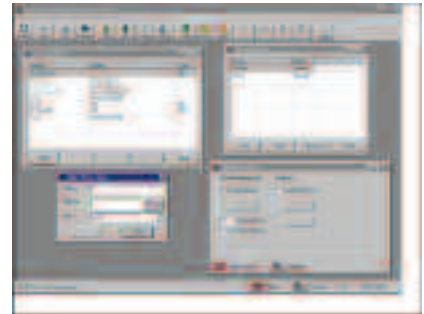


Figure 1: In Station Screen

Showing Address Book (top left), User Accounts (top right), Address book Editor (bottom left) and connection status (bottom right)

their monitoring, ii) the opportunity to share the RM data with other applications and tasks, which in turn would allow RM to act as a general conduit for moving data to and from the street.

Systems are scalable with up to 50 (depending on volumes of data and timeliness of reporting) outstations being supported by a single in station PC and modem. As systems evolve additional in station PCs may be added and ultimately an in station network and FEP put in place to ensure effective communication.

With the addition of configurable out station capabilities for traffic data reporting and feeds from ANPR and related equipment the RM system becomes a key part of the road network monitoring system.

Future Facilities

Information sharing with UTMC databases for best efficiency; collection and processing of traffic data with the same infrastructure; and interfacing to fault monitoring systems for end-to-end operation

Sales

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