

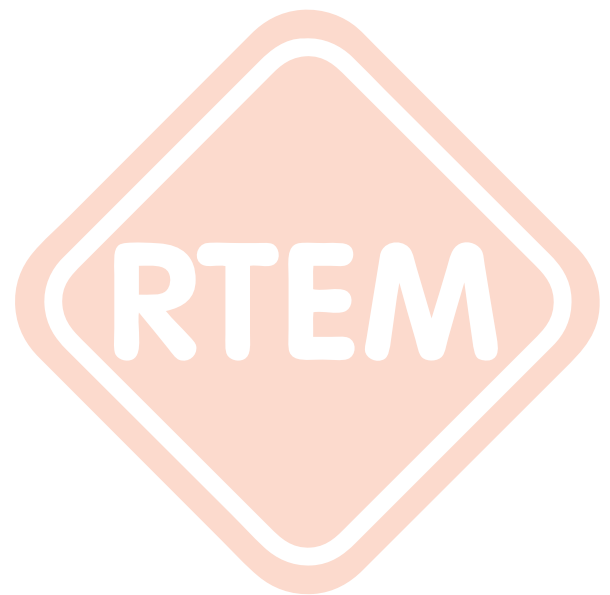


# Road Traffic Equipment Manufacturers

Home of the versatile SP4 intelligent loop detector platform



**RTEM Software**



- **User-changeable Apps drive the hardware**
  - **Tablet software for quick site visits**
    - **Engineer's terminal**
      - **Remote site control**
        - **Automated communications management**
          - **Database, analysis and reporting**
            - **All Free!**

## **RTEM Software**

RTEM uses in-house expertise to produce a suite of software packages in support of the SP4 and GP8 vehicle classifier platforms. Our experience of using our own and competitors' systems, coupled with the feedback we actively seek from customers allows us to focus our software around what is important to users and quickly incorporate changes to improve the function and user-friendliness of our programs.

All standard RTEM software is issued free-of-charge and, while licensed, has no ongoing fees for maintenance. Updates are also free.

## **APPS**

One of the key features of RTEM's classifier platforms is that they run on user-changeable firmware "apps" which tell the classifier how to behave in different uses. The core Apps available to all users are:

- **modsig** Allows the classifier to be used for motor-vehicle detection from sensor arrays with 2 inductive loops in each traffic lane. Failsafe feature ensures continuity of data in the event of a loop failure. Compatible with Selective Vehicle Detection, SCOOT, Journey Time monitoring and incident detection requirements.
- **slp** Allows the classifier to be used for motor-vehicle detection from sensor arrays with a single inductive loops in each traffic lane. Compatible with Selective Vehicle Detection, SCOOT, Journey Time monitoring and incident detection requirements.
- **cycledet** Allows the classifier to be used for detecting pedal cycles. Compatible with Selective Vehicle Detection and Journey Time monitoring requirements.

Specialist Apps can be developed for bespoke uses of the equipment. A small charge is made to cover the cost of development where the App is not expected to be widely used by other customers.

## **Engineers' Interfaces**

**MicroDial software provides for direct or dial-up connection to RTEM classifiers.**

- Runs on Netbook / Notebook / Laptop PCs with WinXP or newer operating systems
- User-friendly front-end for configuration of classifiers, monitoring of operation and data retrieval
- Engineer's terminal with comprehensive functionality and on-screen help to find the right commands quickly
- Monitor and record specific vehicle waveforms for further analysis
- Logging facility to record all engineer interventions

**RTEM app for direct connection to RTEM classifiers.**

- Runs on tablet devices with Android operating system and USB port.
- Easy to use app allows Engineers to quickly check battery voltage and basic settings
- Monitor operation
- Retrieve data



**Office Software**

**MicroDial for desktop PC**

- Site management
- Handles multiple databases
- Process data collected manually from remote sites
- User-initiated dial-up telemetry to remote sites giving user full control of all functionality
- Automated dial-up telemetry for routine monitoring of and data collection from remote sites
- Production of reports from the database(s)
- Export of data for further analysis in industry standard analysis packages or other software

**Instation**

- Requires ADSL connection and fixed IP address (can be outside of organisation's network if preferred)
- Accepts connections from remote sites as pre-defined intervals, passing status information, alerts and data
- Supports multiple sites, each with their own port to minimise the impact of a single port failure
- User can obtain full control over remote site to check/change any settings
- Interfaces to MicroDial database
- Can be controlled by a dummy terminal operating the same software (useful for remote working or where organisations prefer the machine accepting the communication from remote sites to be outside of their IT network.)
- Allows data to be shared automatically with UTMC systems requiring data feeds in near real-time.



**RTEM Ltd**

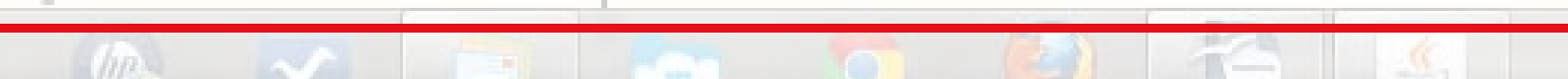
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MicroDial : Paul Stroud

File Setup Device setup Survey setup Remote Setup Reports Graphical Analysis Read to Database Help Exit

Direct Dial sites Map Disconnect Site data Live Retrieve Edit sites Advance Servers Log off

New Add Remove Default Save Edit Con Close

Show detailed

List of 'Dialup-Groups'	List of 'Sites'	Selected site's 'Site Data'																																				
test	A436 Hampen #siteno= 6014 P E Way North, Cheltenham #siteno= 5036 Barnwood bypass east of C&G #siteno= 4 A48 Severn Bore #siteno= 3020 A38 Tewkesbury eastern bypass #siteno= #siteno= 1 Newerne street #siteno= 2009 Bream Road #siteno= 2011 Forest Rd Lydney #siteno= 2010 A429 Dillies Farm #siteno= 6008 A38 Mythe waterworks Tewkesbury2 #sit South of M50 #siteno= 3007 A419 St Marys bend eastbound #siteno= 4 id #siteno= Over South of Maisemore West #siteno= North of GNPB #siteno= 4006 Fosse Manor south of Stow #siteno= 7007	<table border="1"> <thead> <tr> <th>Description</th> <th>Value</th> <th>Changed</th> </tr> </thead> <tbody> <tr> <td>Site No</td> <td>24016</td> <td></td> </tr> <tr> <td>Site Name</td> <td>Over South of Maisemore West</td> <td></td> </tr> <tr> <td>DeviceType</td> <td>Classifier-4 loop</td> <td></td> </tr> <tr> <td>Firmware Version</td> <td>3.15v</td> <td></td> </tr> <tr> <td>Compact Flash card size</td> <td>2048</td> <td></td> </tr> <tr> <td>Power</td> <td>BATTERY</td> <td></td> </tr> <tr> <td>Lane 1 loop_length</td> <td>200</td> <td></td> </tr> <tr> <td>Lane 2 loop_length</td> <td>200</td> <td></td> </tr> <tr> <td>Lane 1 loop_sep</td> <td>200</td> <td></td> </tr> <tr> <td>Lane 2 loop_sep</td> <td>200</td> <td></td> </tr> <tr> <td>Classification</td> <td>Euro-6</td> <td></td> </tr> </tbody> </table>	Description	Value	Changed	Site No	24016		Site Name	Over South of Maisemore West		DeviceType	Classifier-4 loop		Firmware Version	3.15v		Compact Flash card size	2048		Power	BATTERY		Lane 1 loop_length	200		Lane 2 loop_length	200		Lane 1 loop_sep	200		Lane 2 loop_sep	200		Classification	Euro-6	
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Site is associated with dialup-group  
No group Selected

Dial-group is scheduled to dialup at:  
-

Telephone

List Sites By  
 All Sites     Classifiers  
 All sites in group     SLPs  
 Cycle detectors

To select a site double click on it. Site details will appear on the right hand list.

To edit/modify ' a parameter's value' double click on the 'row'

Disconnected 12:31 08/03/2013

Weekly Report For Site P E x

file:///C:/Customer%20Databases/Gloucestershire/P%20E%20Way%20North,%20Cheltenham\_5036/html/P%20E%20Way%20Nor

## " P E Way North, Cheltenham\_5036\_2011\_Week\_51 " Report

### " Site name:P E Way North, Cheltenham Site Number 5036 "

#### Lane 1 Volume Report

Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	5Day Avg	7Day Avg
Hours	19/12/2011	20/12/2011	21/12/2011	22/12/2011	23/12/2011	24/12/2011	25/12/2011	Avg	Avg
00:00	52	69	68	74	85	119	71	69	76
01:00	20	32	35	29	38	70	31	30	36
02:00	24	21	19	22	28	45	22	22	25
03:00	23	19	28	27	26	32	11	24	23
04:00	38	43	42	38	41	37	10	40	35
05:00	154	155	152	155	148	63	9	152	119
06:00	405	438	414	412	342	129	31	402	310
07:00	940	911	919	875	765	259	59	882	675
08:00	918	930	900	896	923	477	113	913	736
09:00	783	820	893	907	951	678	271	870	757
10:00	856	865	900	952	995	831	423	913	831
11:00	935	924	985	952	1010	907	583	961	899
12:00	955	943	1012	1008	831	838	550	949	876
13:00	887	948	965	947	895	922	332	928	842
14:00	916	925	938	989	966	860	217	946	830
15:00	971	916	933	930	921	762	239	934	810
16:00	979	889	976	898	863	681	283	921	795
17:00	899	939	737	882	726	588	332	836	729

12:36 08/03/2013