



**Design, Development and
Manufacture
of Electronic Equipment**

Field Maintenance Terminal (FMT)

The Field Maintenance Terminal (FMT) is a Windows based application running on a PC or laptop to perform remote diagnostic interrogation and configuration on the PWC100, PWC200 Prepaid Water Controllers and PWC300 Automated Meter Reading device (AMR).

The PWC400 Data Collector is an add-on USB device equipped with an 868 MHz RF radio, communicating remotely with the prepaid meters. This allows technicians to do diagnostics while being in radio range of the meter. This is ideal for installations with no direct access.

Automated Meter Reading (AMR) is available on the FMT to remotely collect data from meters by driving past them in a vehicle. AMR Fields are selectable, so that only the required fields are uploaded. All AMR data can be viewed on FMT or on Microsoft Excel Spreadsheet.

Automated Meter Configuration (AMC) is used to rapidly change meter configuration settings using the same drive-by mechanism. FMT reads the Configuration Index of the meter. If a new Revision is available for the meter, new parameters are sent to the meter. All in a split second, while passing the meter.

The FMT is password controlled, with various levels of access. The FMT can access any meter in Read-only mode, to get diagnostic or historical data. To perform configuration changes the FMT is locked only to specific installations.



Features

- Multiple Meter Configuration Profiles
- Drive-by AMR and Meter Configuration
- Pre-selectable AMR fields to upload
- AMR Data Microsoft Excel compatible
- Unlimited AMR records
- View AMR records in spreadsheet format
- AMR Data Microsoft Excel compatible
- Manual AMR operation

Data Collection

- Diagnostic information such as tamper & error codes
- Credit available in any of 5 credit registers
- Valve position & battery level
- View Configuration Profile and Revision
- Last 10 Credit Tokens entered with date of entry
- Monthly Consumption History over past 12 months
- Monthly Credit Usage over past 12 months
- End-of-month Credit reading over past 12 months
- Totalizer history over past 12 months
- Hourly totalizer history over last 90 days
- Manufacturing Information

Other Features

- Send Token remotely to meter
- Activate and remove Utility Lock
- Test Valve operation
- Synchronize Clock
- Multiple Users

Configuration

Programmable parameters on the PWC:

- Mode of operation - Prepaid, Post paid, Conventional or Fixed Water Dispenser
- Daily or monthly Free Basic Water up to 65kL
- Accumulation options for unused FBW
- Valve open time to open to deliver FBW
- Optional Expiry date for FBW
- Credit & FBW low level indication
- Life Line volume and number of days
- Emergency Credit and Release quantity



MAIN SCREEN

PWC400 Data Collector Specifications

- USB Powered
- 868mHz Radio Communications
- Magnetic Vehicle Roof Mount Antenna
- Radio range up to 500m Line-of-Sight
- Installation Coded
- Secure Encrypted Communications



PWC400 Data Collector

Preset AMR Fields (Only select what you need)

- Prepaid Number
- Error Code
- Profile Index (Revision)
- Tariff Index (Revision)
- Meter Status
 - Tamper Status
 - Valve position
 - Battery Status
 - Possible Leak
- Additional Status
 - Credit Status
 - Consumer Locked
 - Utility Locked
 - Meter Mode
- Totalizer at Start of Month
- Credit at Start of Month
- Month-to-date Consumption
- Consumption History
 - Total Consumption (3,6 or 11 months)
 - Paid Consumption (3,6,11 months)
 - FBW (Free Basic Water Consumption (3,6,11 months)
 - Grant Consumption (3,6,11 months)
 - Emergency Consumption (3,6,11 months)
 - Lifeline Consumption (3,6,11 months)

- Meter Totalizer
- Supply Group code
- Area Code
- Alternate Reference
- GPS Co-ordinates
- Leak Size
- Data FBW Utilized

- Data of Manufacture
- Firmware Version
- Meter Date

- Consumption to Date
- Credit to Date

- Credit Mode
- Date Last Credit Loaded
- Credit Available
 - Paid Credit available
 - FBW available
 - Grant Available
 - Lifeline Credit available
 - Emergency Credit Available

REV1