

evoWalk™ Handheld Reader, Installation & Maintenance Tool



Hardware Specifications

Hardware	DAP Microflex CE5240 (CE5000B series) ruggedized handheld PC
Operating System	Microsoft Windows CE 5.0
Processor	XScale PCA270, 520 MHz
Memory	256 MB storage flash for Win CE and file system 128 MB SDRAM Optional additional storage via SD memory
Display	3.5 in. diagonal 240 X 320 (portrait) active matrix/reflective LED backlight, LCD, automatic contrast temperature compensated Touchscreen
Keys	54 rubber keys ABC layout with LED backlighting Separate numeric keypad 4 dedicated function keys 12 definable 'Hot' keys Tactile and programmable audible feedback
Integrated Wireless	Wavenis 902 to 928 MHz wireless modem in compact flash form factor – uses PCMCIA card slot with compact flash adapter
Ports	Internal– environmentally sealed 5 V power for external devices 1 PC card type I & II 1 SD/SDIO slot
Batteries	2400 mAh Lithium ion rechargeable pack (user accessible) Charge status and low battery indicator, Power gauge Separate backup battery for hot-swapping of batteries 12 V power jack on casing for power input and charging
Audio	Integrated speaker, output and optional microphone input

Profile

The evoWalk handheld is used in the evolution Mobile AMR system to walk a route to collect water meter readings and alarms. It is also used to install new evoRTM™ Endpoints into the AMR system and as a field service tool to maintain the system.

The evoWalk handheld utilizes a DAP Technologies Microflex CE5240 (CE5000B series). This is a rugged unit that meets the environmental, performance and software requirements for the Elster AMCO Water evolution AMR system.

The evoWalk handheld comes preconfigured with the evoWalk and evoLink™ applications. The evoWalk application is used for meter reading and the evoLink application is used for evoRTM Endpoint installation and maintenance.



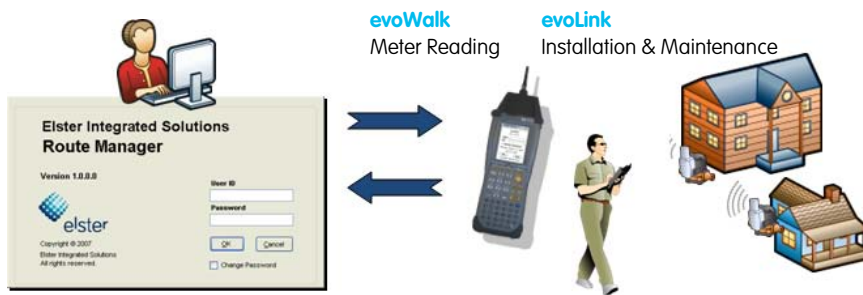
Charging	Single desk dock (Ethernet connectivity) In-line battery charger Vehicle charging cable
Physical Specs	
Dimensions	Length: 9.74" (24.8 cm) Width: 4.08" (10.4 cm) Depth: 2.36" (6 cm)
Weight	1.94 lbs. (880 g including batteries)
Case	Impact resistant plastic case Rubberized over-mold on all impact areas for added protection
Regulatory	FCC Class B, CE certification, ROHS compliant

Environmental Specs

Shock	IEC 68-2-32 method 1 MIL-STD-810F method 516.5 procedure IV
Operating Temperature	-4°F to +122°F (-20°C to +50°C)
Storage Temperature	-22°F to +140°F (-30°C to +60°C) with battery -40°F to 158°F (-40°C to 70°C) without battery
Sealing	Water resistant IP67 and MIL-STD-810E methods 506.3 procedure 1 and 512.4 procedure 1 Humidity 95% non-condensing

Warranty

1 year parts and labor
DAPCare warranty extension available



Meter reading routes are created using the evoRoute Manager™ application and transferred to the mobile collector units via an Ethernet connection. After the route has been walked and the meters have been read using the evoWalk handheld tool, the completed route file is transferred back to the evoRoute Manager via an Ethernet connection. The Ethernet connection is established as the handheld rests in its cradle. Microsoft Active Sync is used to manage the file transfers to and from the handheld.

evoWalk Application

The evoWalk application is used to read meters while walking a route. The application is very simple to use - readings are taken with the press of a button and the route counter is incremented to the next account. The handheld reading screen is configurable via the evoRoute Manager software, allowing the water utility to select and view the information important to its meter reading personnel when walking routes for data acquisition. During the data acquisition process, the evoRTM is interrogated and will bring back the latest water meter reading along with any active alarms. The meter reader is notified of active alarms while reading the meter and can investigate while on site. Additionally, Data logging can be requested by the meter reader, if requested.

evoLink Application

The evoLink installation and maintenance tool is used to install and troubleshoot evoRTM Endpoints. With this tool, the utility can initialize the evoRTM Endpoint with encoder or pulse values, clear alarms, troubleshoot endpoints, and store the actions completed on a specific account in an 'Action Log'. The tool is intended for use by contractor installers and utility personnel. Use of the installation and maintenance tool is very straight-forward and intuitive with four main functions:

- Installation
Program the evoRTM Endpoint for service after it has been connected to a register/meter
- Maintenance
View and configure alarms – useful for troubleshooting
- Data Logging
View the data log table in any RTM
- Configuration
Set all defaults to desired values

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