

# Integrated smart energy management and controller

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## UWP 3.0 – Central interface for energy monitoring and control

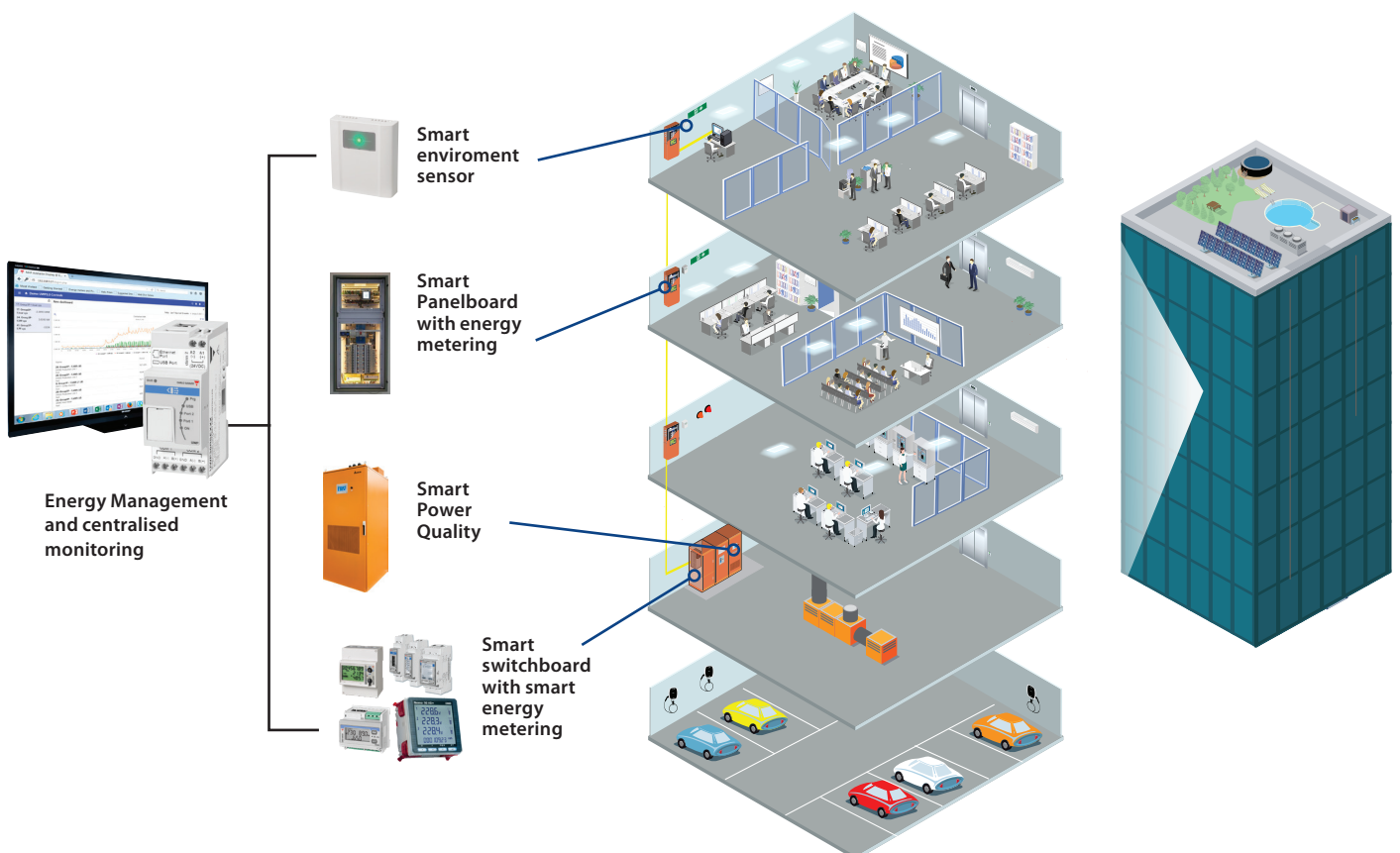
The UWP 3.0 is a powerful solution for monitoring, centralizing and storing a building's energy usage data as well as offering an open interface for building management functionalities. Its ability to centralize hourly energy data from a wide range of energy meters, transfer it to a local or remote server and internally store it if communication is lost makes it the ideal solution for meeting the requirement of the NCC 2019, part J8.3(c).

Its comprehensive communication capabilities offers the ability to act as a datalogger, gateway or controller for BACnet devices, gather data from environmental sensing devices with Modbus communication capabilities and be retrofitted to centralize other web-server based solutions (such as the VMU-C) with newly installed meters.

The fully customizable monitoring system is available on any browser including on tablet and smart phone. Its compatibility with the EM<sup>2</sup> server or other cloud-based servers such as Microsoft Azure or Amazon AWS allows it to be easily scalable to a larger site or multi-site installations.

### Main features and benefits

- Centralizes energy monitoring environmental sensing and control devices on the one user interface
- Ability to customize dashboard to view data that is most important to you
- No data loss with an on-board storage capability
- Reduce on installation time and space



## Main characteristics

- All in one datalogger, controller, gateway and web-server with onboard backup storage
- Compatible with a wide range of communication protocols, devices, applications and libraries
- Fully customizable web monitoring and data storing user interface
- Web monitoring user interface accessible on any browser, smartphone and tablet
- Ability to push live data to other cloud systems such as EM², Microsoft Azure, Amazon AWS
- Can email or SMS scheduled alarms for selected monitored items
- Secure against cyber-attacks and computer viruses
- Offers Selectable time interval for data storage (1 minute to 60 minutes)
- Quick and simple to configure and commission through a software tool

## Advantages

### Flexible

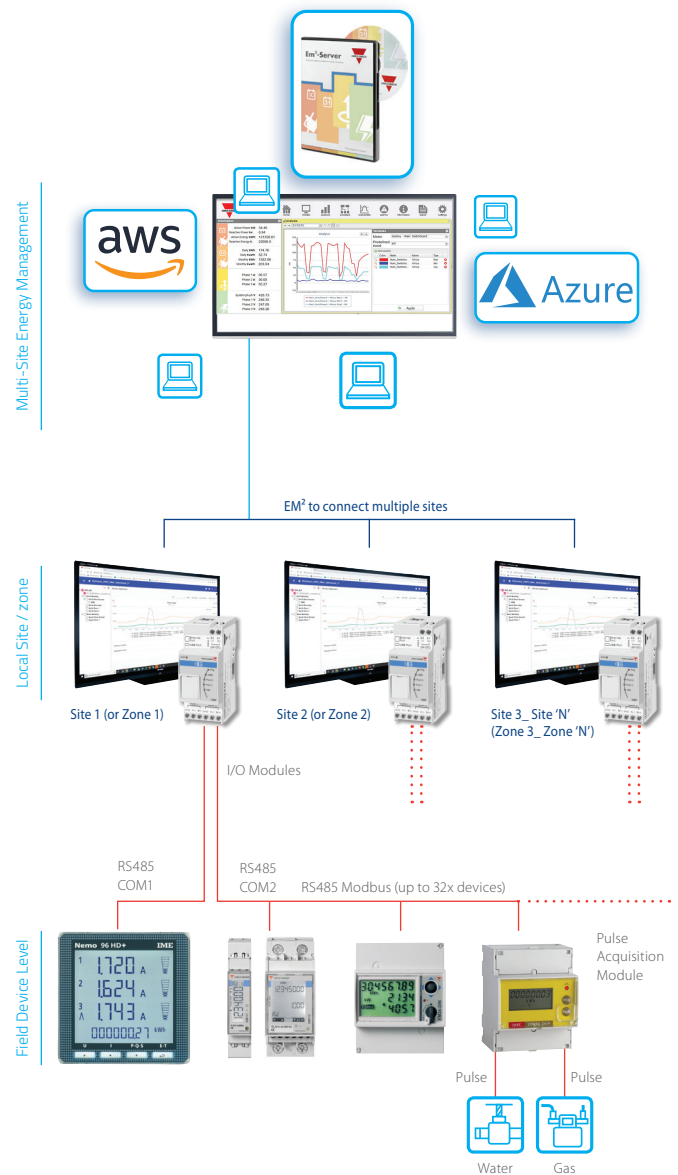
- Not limited to a certain brands of energy meters or building controller
- No need for a dedicated PC for monitoring
- Not limited to viewing, analyzing or storing data on the UWP web monitoring user interface

### Cost effective

- Can connect a vast number of meters making it the only device needed to centralize all energy data in a small to medium site.
- No subscription fee for viewing and storing all data as well as controlling connected building automation devices through the web monitoring user interface.
- Easy to install, configure and expand saving time on installation and commissioning

### Meets NCC 2019 requirements by providing a single user interface for

- Centralizing,
- Analyzing and
- Storing data

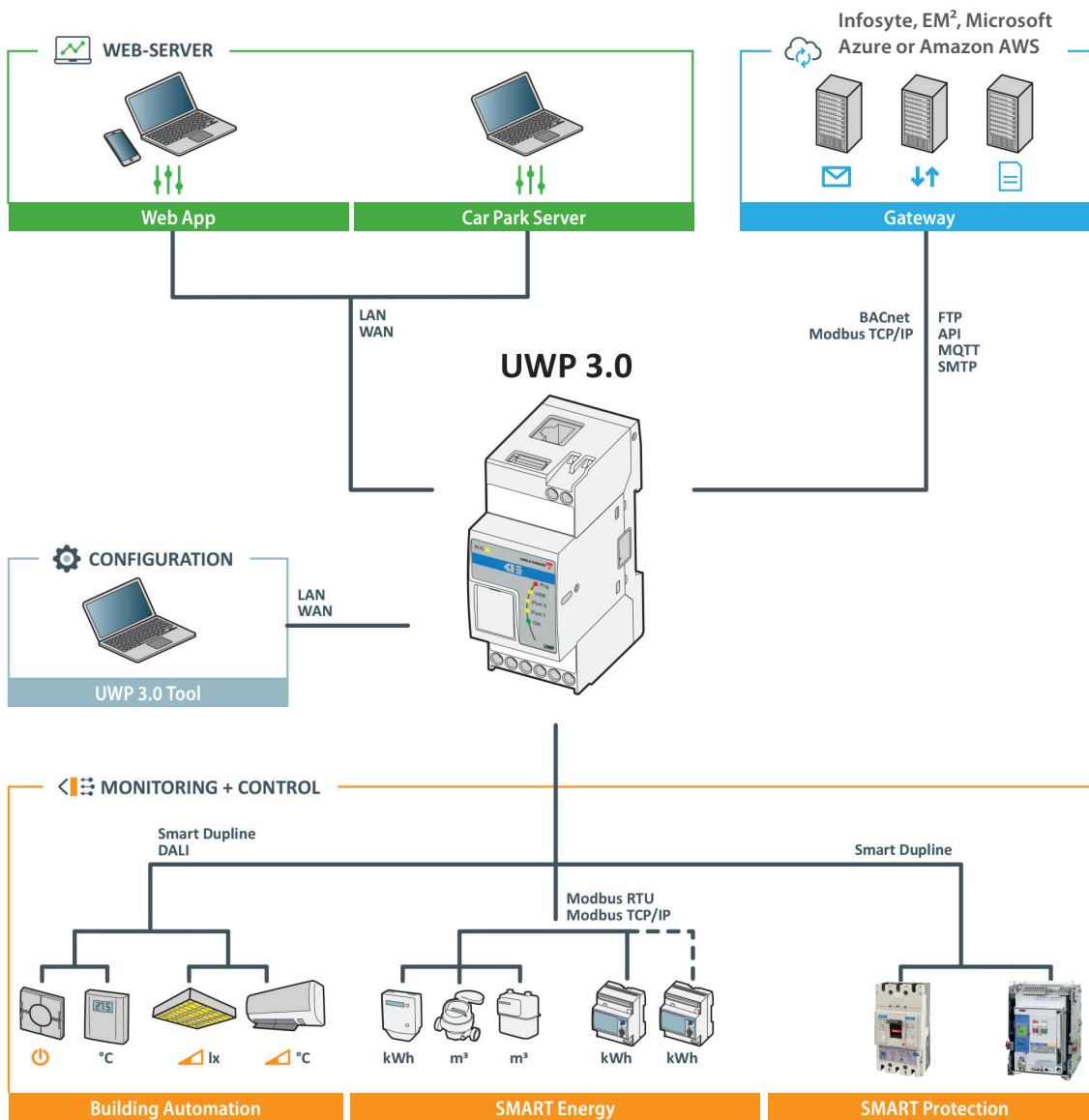




## Ordering information

Catalogue No.	Description
UWP30RSEXXX	Monitoring And Gateway Control 15-24V DC Ethernet USB RS485

## Energy monitoring and control application example





## Software Interfaces

### UWP Tool

The configuration and commissioning of the UWP 3.0 is quick and simple thanks to the UWP tool software. The tool configures the connected meters with the interval datalogging, meter location and grouping interdependent devices. The set-up for other types of IO devices and meters non-Carlo Gavazzi meters can be completed and tested within the tool at the commissioning stage. To minimize the time spent on on-site configuration, the UWP 3.0 tool provides a template for pre-programming the configuration on MS Excel and load it to the UWP 3.0 onsite.



UWP 3.0 Tool

The UWP tool is free to download at

[http://www.productselection.net/Download/UK/uwp3.0\\_tool\\_sw\\_download.pdf](http://www.productselection.net/Download/UK/uwp3.0_tool_sw_download.pdf)

### UWP Web App

The UWP Web App allows for monitoring, storage and analysis of energy data to be tailored to the needs of the user. As the UWP 3.0 includes an on-board webserver, the monitoring and analysis user interface is accessible via any browser. The meter grouping and locations settings are carried over from the UWP tool making it easy to split the monitoring by room, level or application.



UWP 3.0 WEB APP

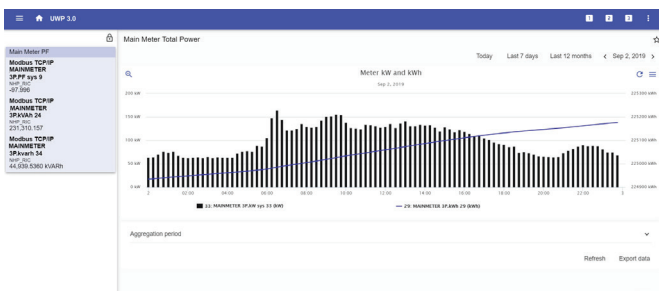


## Examples of the UWP Web App



### Live data for multiple energy meters

The UWP Web App gives the users flexibility to select different meters or different phases of the same meter to be viewed individually or all together.



## Customising views and quick links

Live values, graphs or both can be added to the same dashboard to analyse different parameter in the same meter.

For multiple analysis pages, quick links can be created and easily accessible on the main dashboard.



## Analysing interdependent variables

Live data from environmental sensors and energy meters can viewed within the same graph for ease of analysis of interdependent components.

Group	Features and Benefits	UWP
Catalogue No.		UWP30RSEXXX
Installation and Scalability	Single installation	Yes
	Multiple Installations	Requires EM <sup>2</sup> or InfoSyte <sup>1)</sup>
	Number of meters	Up to 64 <sup>2)</sup>
	Form factor	2-DIN
	Simple Configuration	Yes
Internal functionality	Embedded webserver	Dedicated computer not required
	Internal storage capability	Up to 4GB
	Internal clock	Yes
User Management	User and Admin profile (multiple users)	Yes
	Edit access rights	Yes
	Online help	Yes
Monitoring and control	Variable Monitoring	Yes
	Custom trends	Yes
	Custom dashboard	Yes
	Excel data export	Yes
	Remote control over connected devices	Yes
Alarm and event Management	Customised alarms	Yes
	Schedule events	Yes
	Email and SMS alerts	Yes
Connectivity	Configure as BACnet Master or Slave	Yes
	Generic Modbus Driver	Yes
	Centralize Web-Server Based Devices	Yes
	IoT Ready	Yes
	Compatibility with EM <sup>2</sup>	Yes

<sup>1)</sup> Please contact NHP for more information

<sup>2)</sup> This number can be increased to 124 when using certain Carlo Gavazzi meters. Please note, cable length and signal repeaters will need to be considered when connecting to more than 64 devices.



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