Sensors   **Switches**   **Controls**   **Fieldbuses**
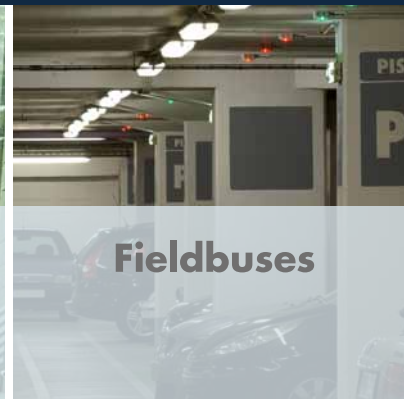
Application notes

Application Note : November 2016	
Market involved : Conventional energy	
Product : WM20 Smart Power Analyser	
Customer : System integrators	
Subject : Energy management via BACnet in petrol stations	

CUSTOMER ISSUE :

A big oil company owns a wide network of petrol stations, all managed via a BACnet system.

As well as the standard control functions already managed by this system (such as lights, pumps, safety sensors and valves), the integration of energy consumption data is also required in order to put in place a single effective Energy Management system.

The main goal in this kind of retrofit project is to use the same bus as is already installed and operating.

OUR SOLUTION :

The WM20 with the BACnet MS/TP communication module, supplied in combination with 3 split core CTD_S, is the ideal solution for this retrofit project.

All the energy consumption information is provided simply by connecting the analyser to the existing RS485 bus, in any panel of the station.

Even if at the moment no physical digital output is needed, the possibility of adding 2 outputs later as an option is highly appreciated by customers.

BENEFITS :

- Class 0.5 accuracy for energy, class 0.2 accuracy for voltage and current measurement

- Easily programmable by a touch keypad, via serial communication or through a dedicated optical port at the front

- Supports different communication protocols, such as Modbus and BACnet (both RS485 and Ethernet) or Profibus DPV0

- Optionally supplied with 2 digital outputs for pulse retransmission or alarm