



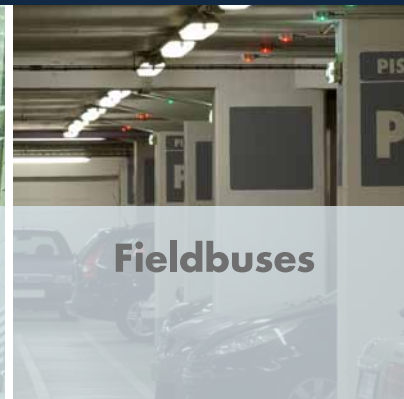
Sensors



Switches



Controls



Fieldbuses

Application notes



Application Note : November 2016

Market involved : Conventional energy

Product : WM20 Smart Power Analyser

Customer : System integrators

Subject : Cost allocation in Industrial applications using ProfiBus

CUSTOMER ISSUE :

In a large automated industrial plant, the most important processes are completely managed by PLCs and field devices, transferring data to each other via the ProfiBus DPVO.

To correctly allocate energy costs to each production batch or machine/process, energy information is necessary, correlated to the number of items produced with that amount of energy.

The best solution would be to have a metering device able to provide energy data to the same automation bus.

OUR SOLUTION :

The WM20 can be equipped with the ProfiBus communication module and can be connected to the same network which manages the automation process.

The WM20 and Profibus module are very flexible, and the Profibus master can decide run-time which variable profiles need to be requested, how many variables or remotely activate/deactivate the WM20 optional digital outputs.

The WM20's large, clear and easy-to-use display also provides all the necessary information to the operators.

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