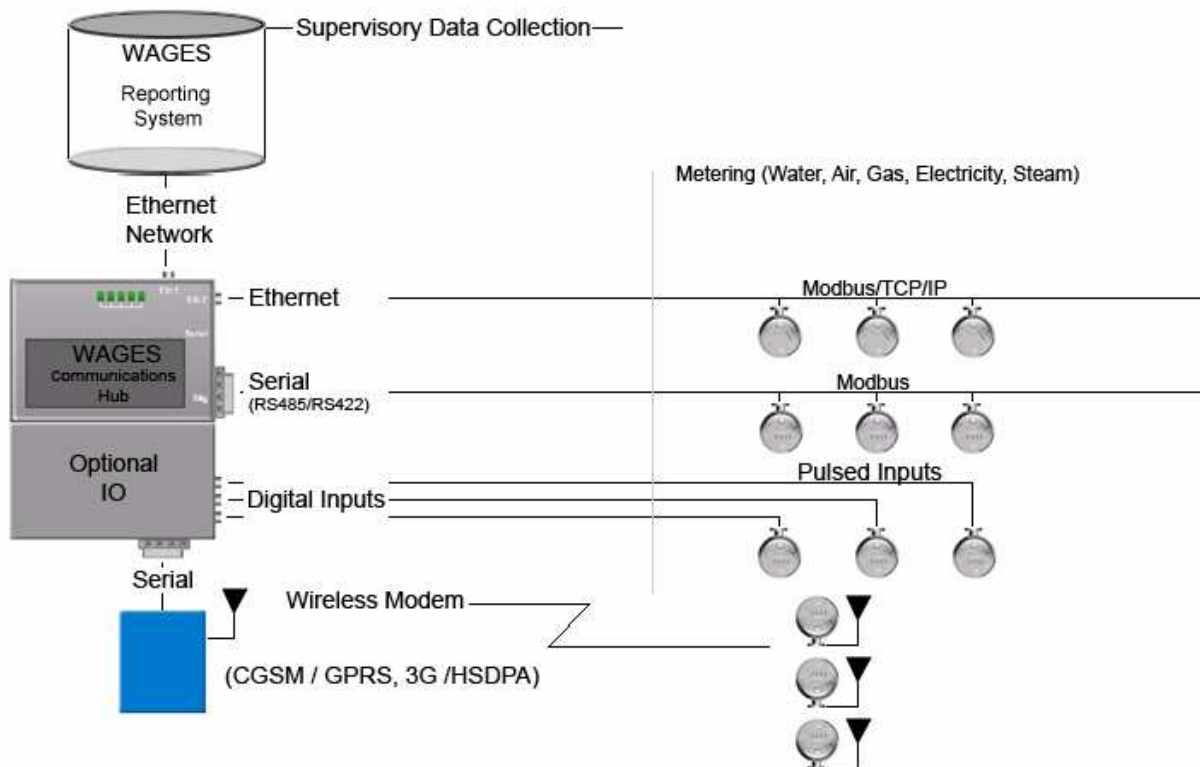




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# WAGES Hub

## Product Brief



### Possible Applications:

Include:

- Commercial facilities, hospitals, military bases, university campuses, etc where the population of water (&/or gas) meters may be significant in relation to power meters and where some of these may be remote from power meters.
- Industrial installations where power metering is not (yet) fed through PLC/DCS or where there is a requirement to keep WAGES monitoring independent of control systems.

## **Market Requirement:**

VRT has identified a need in the market for an industrially rated appliance capable of interrogating local Modbus devices and storing captured data for collection at a later period via Ethernet. Such an appliance needs to be robust, maintenance free (no fans or disk drives) and be powered by a range of sources including either ac and dc. Communications to Modbus devices needs to be via serial and/or Ethernet.

This product is primarily aimed at the power metering market.

Main drivers:

- a) To enable lower cost meters without onboard memory to be utilized in place of the more expensive memory type meters
- b) To collect and store water or gas meter interval data via pulse inputs or csv files, e.g. via GSM/GPRS radio links, but independently of power meters

With this in mind costs need to be kept down so as not to become prohibitive when compared to say four or five memory based power meters.

## **Product Design:**

The product proposed for this market utilises a small, off the shelf industrial PC loaded with VRT software. The hardware is simple and small and has a single power supply, Ethernet ports and RS485 compatible serial ports. There are be additional hardware options available to cater for any local I/O requirements and remote wireless accessibility needs.

Software running on the unit enables the following functions:

- a) Data collection from any Modbus device either over a serial or an Ethernet interface
- b) Storage: data from local metering points will be will be stored onboard in solid state memory
- c) Data access: data will be made available for download as either load survey files or by Modbus interface
- d) Interface to RDBMS, e.g MS SQLserver
- e) Additional configurations will allow connection to pulse data inputs such as water meters to present a standard data server interface.
- f) Future enhancements may include a web server to provide a web interface to local data and configurations and possibly extra driver interfaces.