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Measurement Instrumentation Products

Remote Asset Monitoring

RAMPORT-COMMS

REMOTE ASSET MONITORING & WEB SERVER

- Easy Real-time Monitoring of Remote Assets via the Internet
- Includes GPRS Modem and RS232 or RS485 port for data acquisition
- Numerous other Input types including analogue/digital I/O and wireless
- Can be DC or Battery Powered

Description

The RAMPORT is a small and cost-effective method of monitoring remote plant and equipment from any PC or internet-enabled terminal loaded with a standard web browser.

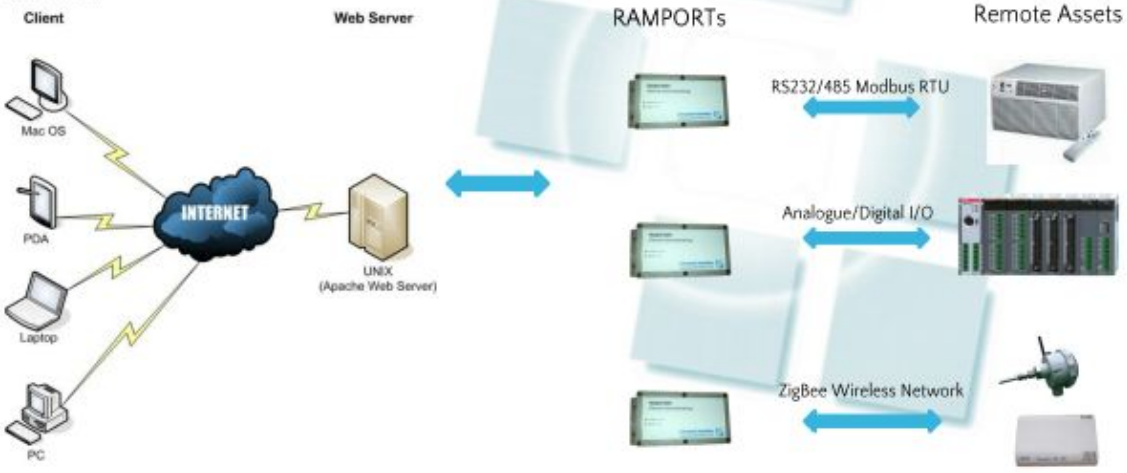
The RAMPORT-COMMS is available with either an RS232 or RS485 serial port which is used to collect data from any instrument with a suitable communications port. The unit supports Modbus RTU protocol as standard but custom protocols can easily be implemented as all the software is written in-house

The RAMPORT periodically sends data to the remote PC, Server or SCADA package. The data upload can be initialised by either the RAMPORT or receiver if the unit is auxiliary powered. This can be process parameters such as temperatures, pressures or vibration or hours run counts or any alarms.

All the user has to do is log in securely on a PC, Smartphone or similar device with internet access using a standard web browser.

In addition reports can be automatically generated, including email alarms and SMS text messages.

A typical application diagram is shown below but the number of applications is almost endless, please contact us to discuss your potential application.



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Parameter characteristics

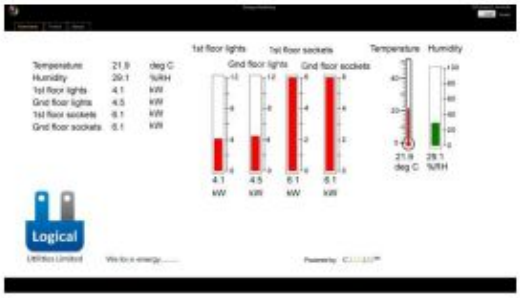
If the full Web Server option is required the data transmitted by the RAMPORT is received by a Firewall protected web server housed in a secure data centre. The software has a Username and Password protected interface together with administrator defined user access levels.

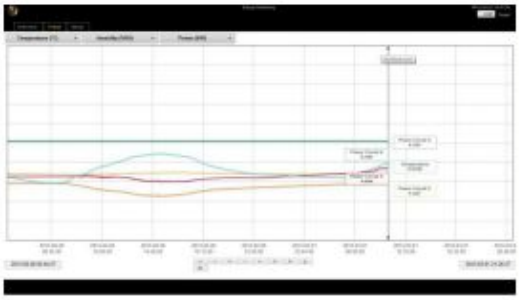
The RAMPORT is configured to update the server with new data at user-programmable intervals. At the same time the RAMPORT can receive any changes in system configuration. Some of the following features are only available if the RAMPORT is specified with a DC power supply, for battery powered units the RAMPORT must initialise the data transfer.

Other features provided include:

Activity Reports
Hours run information
Automatically generated alarms via SMS Text message or email
Audit trails
Tabular real time and historical data
Graphic Trending of parameters including historical playback.
Instant view of the Live status of all connected equipment. (DC powered only)

A typical data display showing live data and trending is shown below:





GPRS/GSM Terminal General Specifications

Parameter	Min	Typ	Max	Comments
Supply Voltage	5	12	36	Optional Battery Power from 3.6 V
Transmit Bands				Quad Band EGSM 850/900/1800/1900MHz
Output Power	1W		2W	1W at 850/900 MHz 2W at 1800/1900 MHz
Control Commands		AT		To GSM 07.05, 07.07 and enhancements
Protocol				TCP/IP Stack access via AT commands
Sensitivity				-107dB at 850/900 -106dB at 1800/1900
Solar Panel Input		3.6V	5V	Built in Solar Panel Option
Dimensions				200 x 90 x 50 mm
Weight			190g	
Storage Ambient	-40°C		+85°C	
Operating Ambient	-20°C		+75°C	
Interfaces	RS232			
Notes	Full data is available in the product manuals please call sales.			