SensorsONE
Measurement Instrumentation Products

Remote Asset Monitoring

RAMPORT-DIN

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
- Can interface with ISOSLICE units to send any I/O data via the GPRS modem
- Interfaces with Z-PORT or E-100 units

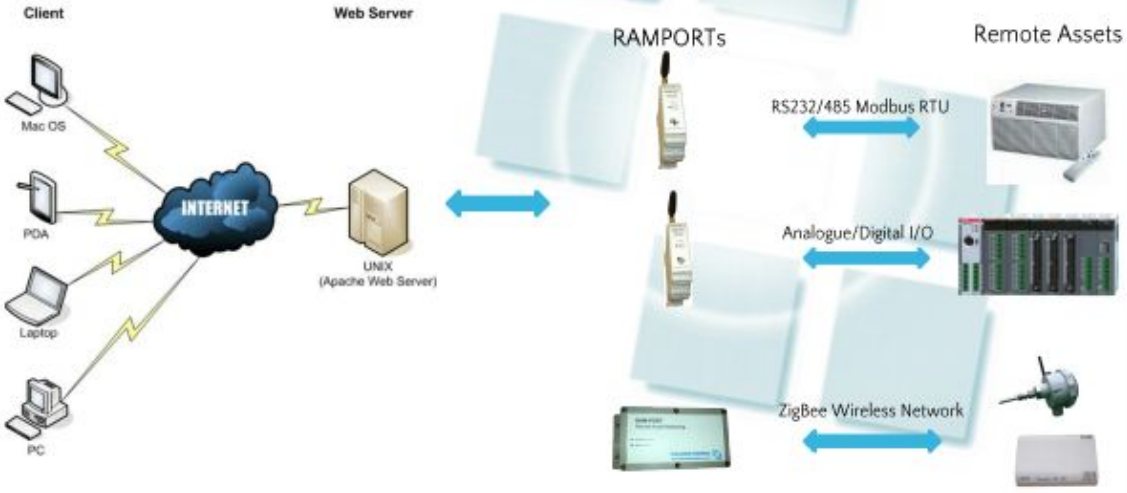
Description

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-DIN is a DIN rail mounting unit 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 unit can also interface directly with ISOSLICE I/O units allowing virtually any input type to be connected and live values sent via the built-in GPRS modem. It can also interface with the E-100 analogue gateway unit or the Z-PORT wireless receiver unit, which allows all the data collected from wireless sensors to be transmitted to a remote location.

The RAMPORT periodically sends data to the remote PC, Server or SCADA package. The data upload can be initialised by either the RAMPORT or the remote device. 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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Technical specifications

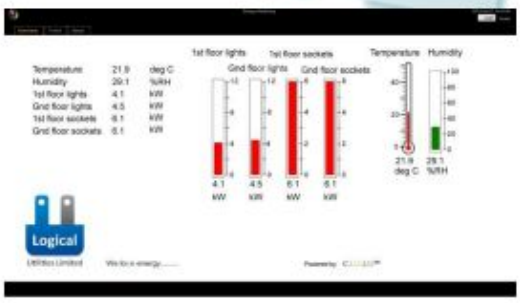
If the full Web Server option is required the data transmitted by the RAMPORT is received by a Firewall protected web server housed in a secure data centre. The software has a Username and Password protected interface together with administrator defined user access levels.

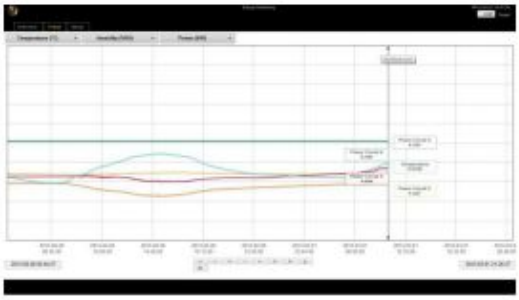
The RAMPORT is configured to update the server with new data at user-programmable intervals. At the same time the RAMPORT can receive any changes in system configuration. Some of the following features are only available if the RAMPORT is specified with a DC power supply, for battery powered units the 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	9	12	36	
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.			