



## *Surface Data Acquisition— Electronic Quartz Gauge RMS-WH-Q*

The RMS-WH-Q is a robust, stand-alone surface data acquisition system that monitors up to three wells. The system has been designed to give continuous service in harsh environments.

Installation environments include desert, swamp, platform and low temperature installations.

Power requirements are suitable for use with solar arrays or thermoelectric generators.

### *Applications*

- Suitable for non-environmentally controlled installation
- Data display and storage, SCADA connectivity



RMS-WH-Q electronic quartz gauge surface data acquisition.



# Electronic Quartz Gauge Surface Data Acquisition RMS-WH-Q

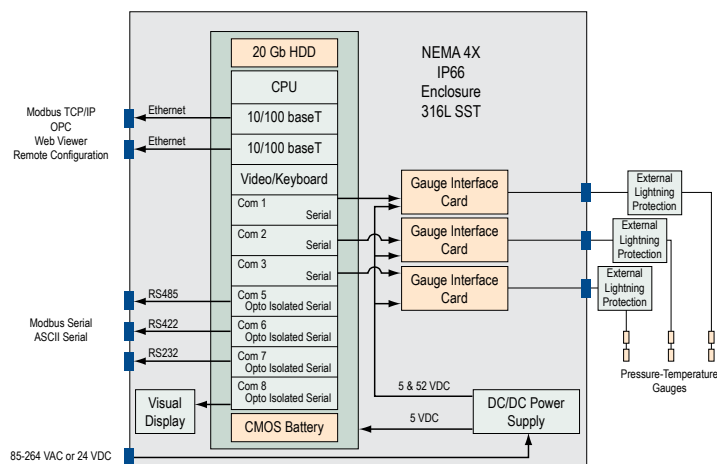
## Features, Advantages and Benefits

The RMS-WH-Q is capable of high speed data transfer, connectivity and data storage locally up to two years while multi-channel data logging up to three wells. It can be customized for various digital and analog inputs and outputs depending on customer requirements.

- The operator can view real-time and historical data through a web browser for remote access
- Easy setup and field termination for fast and trouble free installations
- Windows-based operating system offers maximum flexibility and no custom programming
- All output options and setup configurations are performed at the wellsite
- External shade panels
- Modular design allows phased implementation for multi-well and multi-gauge projects
- Data is recorded at the highest density irrespective of the transfer rate to the client SCADA/server
- High density data enables detailed analysis of any production anomalies
- The RMS-WH-Q has been certified as complying with the Essential Health and Safety Requirements of Annex II of ATEX Directive 94/9/EC; certification has been assured by compliance with European Community standards EN 60079-0: 2003 and EN 60079-15: 2003

## Options



- Solar powered system
- Arctic environments





# Electronic Quartz Gauge Surface Data Acquisition RMS-WH-Q

## Specifications

General	
CPU	Geode GX1
BIOS	AT compatible
Memory	512 Mb, PC 133 SDRAM
Clock	Real-time AT compatible
Operating system	Windows®
Software	Web-viewer reservoir monitoring software controlling data collection, storage, display and I/O output
Display	4-line by 20-characters, vacuum florescent
Power input	18 to 36 VDC or 85 to 264 VAC input, maximum power of 51 Watts
Bandwidth capability	Six quartz gauges
Update rate selectable range	1 second to no limit
Data storage	>2 years
Units	Configurable (metric, Imperial, oilfield)
Physical	
Overall dimensions, in. (mm)	32.5 H x 26 W x 10.35 D (826 H x 661 W x 263 D)
Mounting dimensions, in. (mm)	Four 3/8 (10) bolts
Horizontal mounting spacing, in. (mm)	18 (457) centers
Vertical mounting spacing, in. (mm)	31.25 (794) square pattern
Weight, lbs. (kg)	95 (43.1)
Enclosure material	316 stainless steel
Communications	
Serial ports	One RS232, one RS422 and one RS485
Ethernet	Two ports, 10/100 BaseT
Protocol	Modbus ASCII, Modbus RTU, Modbus TCP/IP, OPC version 1.0 and 2.0, CSV ASCII, formatted ASCII
Environment	
Operating temperature, °F (°C)	-40 to 140 (-40 to 60) [certification pending]
Relative humidity	95% non-condensing
Thermal shock, °F per hr. (°C per hr)	<18 (<10)
CE markings	ATEX, EMC and low voltage directives
Operational vibration	Telecordia GR-63-CORE section 4.4.3, sine sweep 0.1 g, 5 to 100 Hz
Transportation vibration	Telecordia GR-63-CORE section 4.4.3, sine sweep 3.0 g, 5 to 100 Hz
ATEX certifications	Marked  nA IIB T6 for use in Zone 2 hazardous locations by TUV Rheinland CE marked as  II 3 G

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