



## *RMS-WH Wellhead Optical-Sensor Reservoir Monitoring System*

Weatherford's RMS-WH wellhead reservoir monitoring system is a stand-alone surface data-acquisition system designed to monitor up to six Weatherford optical pressure and temperature gauges and provide Web-enabled accessibility to readings on demand.

With considerable local storage capacity, the RMS-WH can hold an extensive amount of high-frequency data over broad time periods. The configuration/application software is identical to that used in Weatherford's full RMS system, supporting communication protocols that conform to industry standards to ensure flexible data handling.



### *Applications*

- Desert, arctic, and swamp environments
- Satellite platforms
- Trial projects

### *Features, Advantages and Benefits*

- External display of status facilitates system operation checks.
- Configuration of the RMS-WH by laptop computer provides convenience.
- Data are recorded at the highest density, even if only a slow update rate is sent to the production facility's control system—enabling detailed analysis of any production anomalies. In addition, data can be easily retrieved if the data link is lost.
- System can support up to six pressure and temperature gauges, reducing costs by minimizing the need for additional equipment.
- Passive downhole components facilitate upgrading of the system hardware and software as enhancements become available, improving overall sensing system performance.
- The RMS-WH is designed to function efficiently in locations where environmental protection, central power, and communications are limited or unavailable. An environment without controlled air will not affect the local storage capacity of the system or the ability of the system to deliver Web-enabled, on-demand access to readings.
- The RMS-WH is Zone 2 certified. Zone 1 certification is available on request.



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## Options

- Solar panel system (consult authorized Weatherford representative)

## Specifications



General	
Number of P/T gauges monitoring capability*	6
Update rate selectable range	1 sec to 15 min
Storage capacity	> 2 yr
Units of measure (selectable)	Metric, Imperial, oilfield
Output Options	
MODBUS®, serial 232, 422, 485, and TCP/IP	ASCII, RTU, master or slave
Simple serial 232, 422, 485	ASCII
OPC 2.0 data access standard	Client and server
Data files by LAN or WAN	Flat file or Web browser
Web-enabled data visualization and transfer	LAN and Web browser
Direct SQL database access	ODBC driver
Electrical Power	
24 V DC nominal	18 to 32 V DC
Maximum current	1.6 amp @ 24 V DC
Power consumption	38 W
Physical	
Zone 2 dimensions (in./mm)	24W × 30H × 8D. 762W × 610H × 203D
Zone 2 weight (lb/kg)	45 23
Zone 1 dimensions (in./mm)	29W × 35H × 13D 743W × 895H × 330D
Zone 1 weight (lb/kg)	505 229
Environmental	
Operating temperature range (shaded) (°F/°C)	-4° to +140° -20° to +60°
Shipping and storage temperature range (°F/°C)	-40° to 185° -40° to +85°
Relative humidity, non-condensing	95%
Transportation vibration	3.0 g rms, random and sine

\*20,000-psi (1,379-bar) P/T gauge

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