WSMS/7X Wellsite Management System

mPOD™ Model Gauge Surface Instrument

Weatherford's WSMS/7X wellsite management system is designed to optimize production-control assets and artificial-lift equipment based on ever-changing well conditions. Built-in applications minimize reconfiguration requirements, primarily for multiple-well configurations when used in conjunction with the *mPOD* model gauge.

The WSMS/7X system logs and monitors downhole pressure and temperature signals, and interfaces those signals to artificial-lift controllers to enhance the operation of the system. The WSMS can also be commissioned stand-alone to support one or multiple wells. The ability to log additional input variables of the system (20 channels capable of 8,400 logging records per channel) is available. Field-equipment data monitoring, logging, and reporting is provided in real time. Connectivity to client host systems for supervisory control and data acquisition (SCADA) interface is standard.

Features, Advantages and Benefits

- Modular and scalable distributed control system adapts to varying applications for increased efficiency.
- Built-in gas flow, data logging, proportional integral derivative (PID) loops, and accumulator applications provide multifunction capabilities for efficient operation.
- Modbus®-compatible host enables open-type architecture to standard automation systems for comprehensive connectivity and remote monitoring of individual and grouped wells.

Applications

- Multiple well configurations
- Multichannel data logging

Options

- Modular I/O expansion capability to monitor additional sensors and additional field equipment/signals

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Specifications

Environmental

Operating temperature	-4°F to 149°F (-20°C to 65°C)
Storage temperature	-40°F to 185°F (-40°C to 85°C)
Humidity	0 to 95%, noncondensing

Communications

Serial	Port 1	RS232/485 with RTS and CTS remote
	Port 2	RS232/485 with RTS and CTS
	Port 3	RS232 full control
	Port 4	RS232 full control, no 485 support
Ethernet		10baseT

Inputs/Outputs

Standard configuration	Analog output	8 each, 4 to 20 mA
		6 each, 0 to 5 V
	Analog input	10 each, 4 to 20 mA

Functional

Logging	20 channels of 8,400 records each
Display	Vacuum fluorescent
Wire terminations	Fused latch type
Processor	Phoebus™ module
Configuration interface	Windows® operating system

Physical Dimensions

Width	24 in. (60.96 cm)
Height	30 in. (76.2 cm)
Depth	10 in. (25.4 cm)
Weight (standard)	70 lb (31.75 kg)

Power Requirements

Input (standard)	85 to 260 Vac; 35 watts + (1.66 Watt × no. of *mPOD*² gauges) + 0.5 × no. of AOs
Input (optional)	24 Vdc; 20 watts + (1.25 × no. of *mPOD*² gauges) + 0.5 × no. of AOs

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