

Rapidlogger™

Wellhead Data Monitoring System from Rapidlogger Systems



Rapidlogger Systems is a provider of efficient monitoring hardware and software systems for oilfield applications. At Rapidlogger Systems, we have designed and developed a range of products for use in the oilfield. Our products are extremely rugged and designed for harsh oilfield environment.

Applications

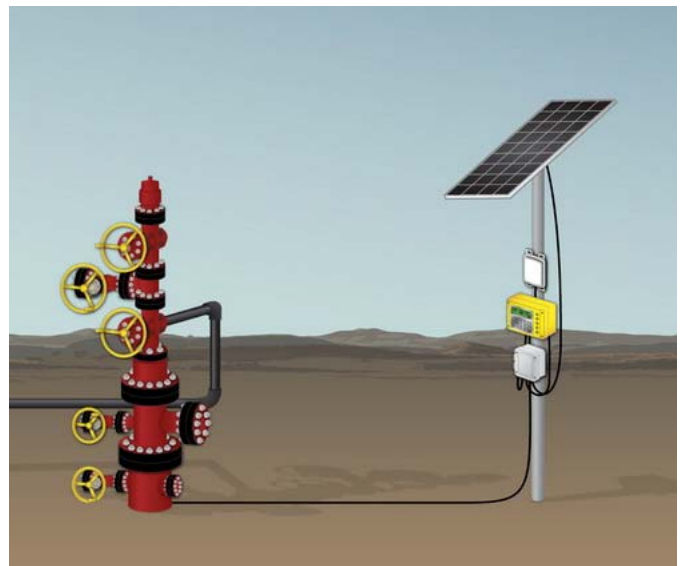
The Rapidlogger Wellhead Monitor is a self-contained state-of-the-art system for monitoring and recording data on wellheads. The system can be configured to record data for periodic download, remote transmission over wired or wireless networks, and for data transmission over cellular or satellite phone networks. The Rapidlogger system is very power efficient and requires very low power. This makes the system very suitable for operation from solar panels. This is a big advantage for locations without power, and where solar power is the only option.

Highlights

The Rapidlogger is the most efficient system available in the market today. It is oilfield rugged, compact, and cost-effective. It provides a local display of the current data for personnel at the wellsite. The system can record, monitor, display and report all of the commonly used oilfield parameters. It is simple to use and can operate continuously for long periods of time. Monitored data can be recorded on flash memory or

transmitted over a network. The data can also be transmitted to a remote system over cellular or satellite telephone networks.

The system can record data for up to a year before memory capacity is filled up and a download is required. No PC is required for the operation of the system or the recording of data. However the Rapidlogger can transmit its data to a PC, distributed control system, or SCADA system via built-in RTU capability.



Features

The Rapidlogger Pressure Monitor is very compact and can be mounted inside or outside control panels. The system has been specifically designed from the ground up for continuous use in harsh and hazardous environments. Unlike industrial PCs, it can operate continuously in extremely hot or cold environments without failure. The maintenance free NEMA 4X enclosure houses the embedded computer, acquisition hardware, display, keypad and the removable flash memory cards.

A powerful PC application that runs on any Windows based PC can be used to acquire the data in realtime or at periodic intervals for monitoring and reporting purposes.

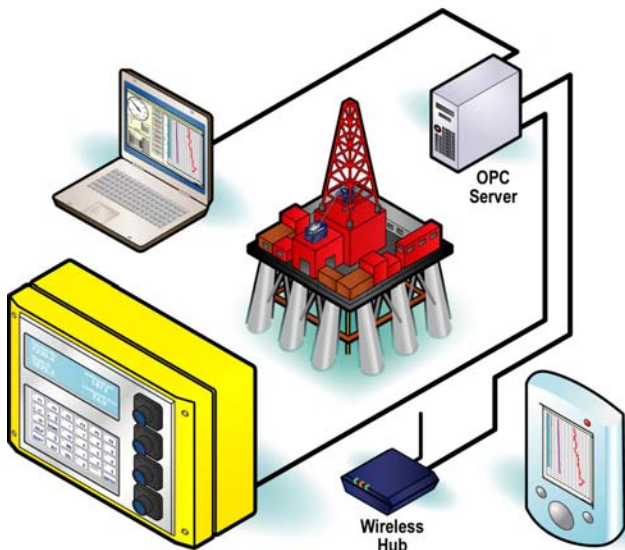
Rapidlogger™

Production Monitoring Mode:

When used in the production monitoring mode the system can monitor, display and record parameters like: wellhead pressure, production flow-rate, temperature, and tank level. Additional parameters can be selected, monitored and recorded. The unit can be networked for centralized monitoring and control or transmit its data over a cellular or satellite telephone link.

Artificial Lift Mode:

When used in the artificial lift mode, the system can monitor and control pump jack or ESP speeds in addition to monitoring the standard production parameters. With a lift optimization schedule available the system can follow it to maximize production volume or balance pipeline capacity.

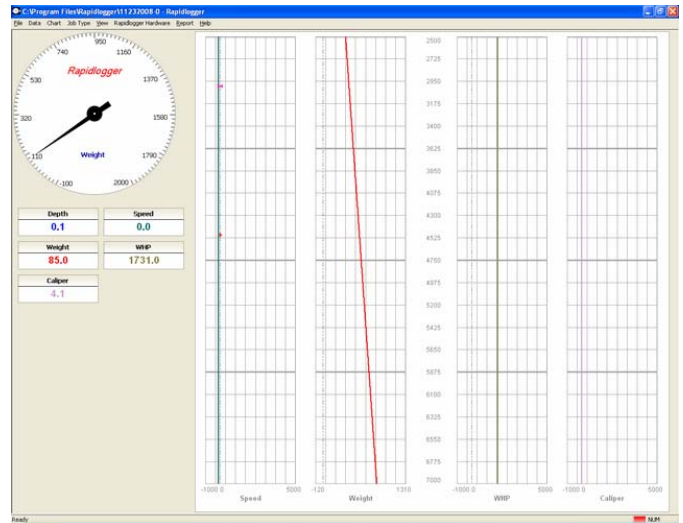


Hardware

The basic Rapidlogger system is capable of acquiring 12 analog, and four rate channels. The system can also control two high current digital proportional output and one analog output for safety shutdown relays or proportional valves. Additional channel inputs can be added to the base system as options. The system can be retrofitted on existing installations or incorporated into new installations.

Software

The RapidVu is the optional PC software for remote monitoring of Rapidlogger data. The PC software is not needed for job recording and is only required for remote monitoring of the system data.



Specifications

Operating Temperature	-40 °C to 70 °C
Operating Environment	NEMA 4X
MTBF	50,000hrs
Analog Inputs	12 std / 24max, 24bit
Frequency (Rate/flow)	4 std / 8 max
Display	Graphic LCD
Computer Interface	Ethernet, Serial
Power	12/24DC, 110/240AC, Solar panel
Job Memory	1GB

Available Options

Sensors for Pressure

Weco union or NPT pressure transducers

Sensors for flow

Turbine flowmeter, stroke counters, doppler flowmeter, coriolis flowmeter, multiphase flowmeter

Software interface capability for

OPC, ModBus, WITS, ASCII, and Rapidlogger-PC software