WellWatcher Connect

Wellsite data transmission system

APPLICATIONS

- Manned or unmanned environments
- Remote locations

BENEFITS

- Reduces operating costs with no license fee
- Adapts to any number of wells and fields
- Collects, stores, and transmits surface and downhole data
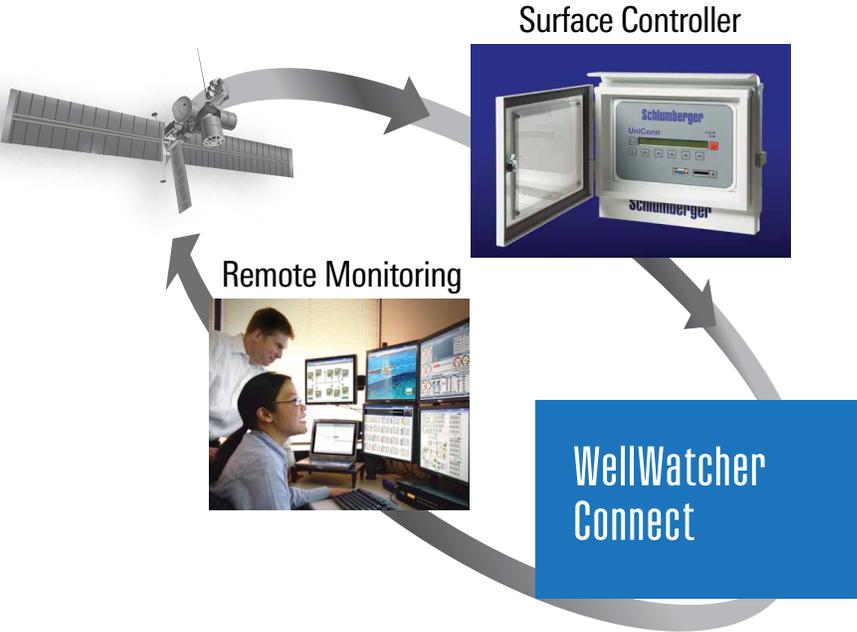- Enables communication using BGAN, satellite, GPS, or LAN

FEATURES

- Ability to read and write using Modbus® Serial, Modbus TCP, Modbus RTU, or Cirrus* wellsite data protocol
- Remote troubleshooting and upgrade capability
- Ability to record data on site with up to 64 GB of storage
- Remote configuration of data transfer rates
- Small wellsite node hardware footprint
- Independent wellsite and in-office landing point nodes for flexibility and staged installation
- Integration with the landing point for seamless retrieval of data
- Rack-mounted landing point solution with a single-processor platform and the performance advantages of quad-core technology
- NEMA 3R, NEMA 4X, and explosion-proof (ATEX-compliant) versions available

WellWatcher Connect* wellsite data transmission system enables remote collection, secure storage, and fast transmission of surface and downhole data. The system comprises three components (wellsite box, transfer medium, and landing point) which can be installed and commissioned in a matter of hours.

Compatible with any communication medium (e.g., satellite, GSM, Ethernet) and Cirrus wellsite data protocol, each stand-alone WellWatcher Connect system interfaces with Schlumberger acquisition and control units as well as third-party devices. Downhole data and system diagnostics are collected at user-specified intervals, and the system can also be configured to alert the user to specific alarms and events.

WellWatcher Connect system provides the missing link between data acquisition and interpretation. Based on Linux®, the license-free system is adaptable to any number of wells and fields. System health is monitored remotely, making trips to the wellsite for software application and configuration updates unnecessary. Technical support is available 24/7.

Surface Controller

Remote Monitoring

WellWatcher Connect

The WellWatcher Connect system enables remote well monitoring by storing, aggregating, encrypting, and transmitting surface and downhole data—such as pressure, temperature, and flow rate—from the wellsite to any location of choice.

WellWatcher Connect

WellWatcher Connect System Specifications

Power supply	Input voltage: 10 to 36 VDC Nominal power: 7 W at 24 VDC
Operating temperature, degF [degC]	−4 to 158 [−20 to 70]
Storage temperature, degF [degC]	−40 to 185 [−40 to 85]
Connectors	Ethernet: 5 × 10/100/1000 Antenna: 2 × RP-SMA for WiFi , 1× SMA for GPRS/HSPA+ Serial: 2 × RS485, 2 × RS232 WiFi module: 2.4/5.8 GHz 802.11n MIMO Cellular: GPRS/EDGE/HSPA+ module
Memory	Flash: 512 MB Mass storage: Dual 64 GB SSD (RAID1 mirror) RAM: 1 GB DDR3
Certifications	ROHS compliant
Enclosure rating	NEMA 1 (standard device) Upon request: NEMA 4x, Class 1, Division 2 rated, ATEX certified (hazardous-zone device) North American Class 1, Division 1, Groups C and D North American Class 2, Groups E and F North American Class 3 European: Class 1, Zone 1, AExd IIB+H2

Landing Point Specifications

Processor	Intel® Core™ i3-2100 (3.10 GHz/2-core/3 MB)
Cache memory	3 MB Intel Smart Cache
Memory	2 GB (1 × 2 GB) PC3-10600E DDR3 UB ECC
Network controller	HP NC112i 1-port Ethernet server (x2)
Storage controller	HP Smart Array B110i SATA RAID controller
Hard drive	1 × 250 GB 3.5-in SATA
Internal storage	Up to 4 large form factor cold plug drives

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Schlumberger