

Well Monitor - ESP Well

“From Wellhead to Desktop”

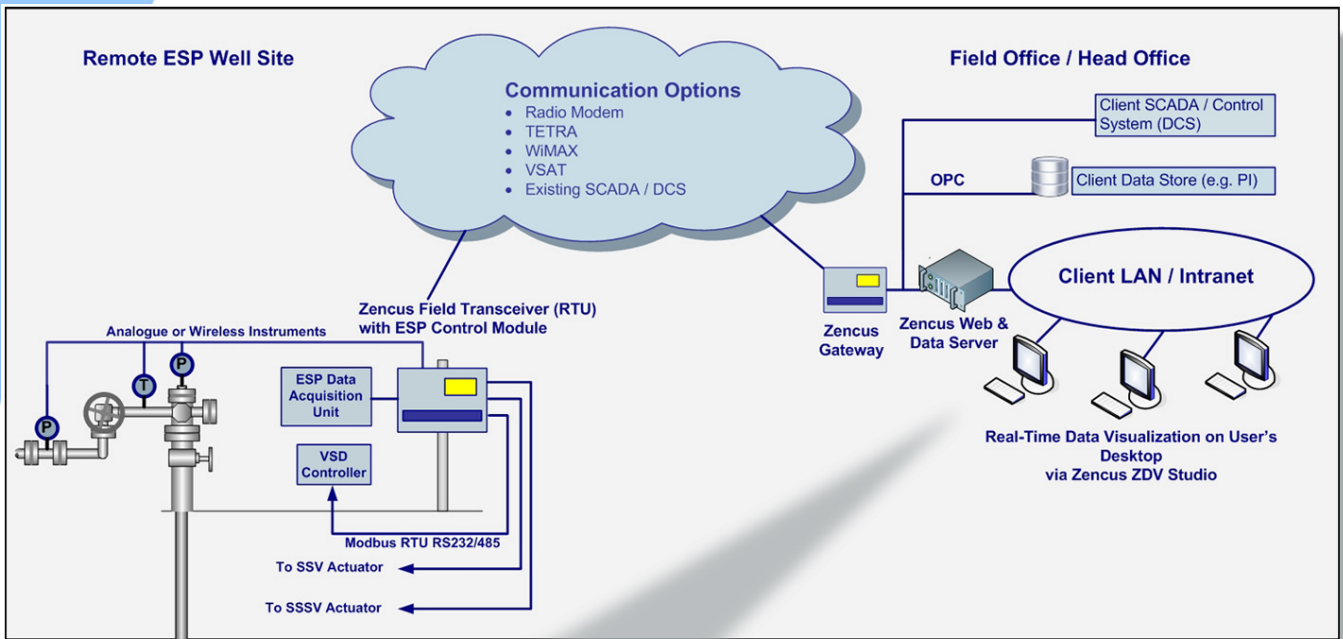


Features:

- *Compatible with third-party surface units.*
- *Programmable local control options.*
- *Remote web-based visualization & ESP control.*

Zencus Application Note Index

- Well Monitor – Production Well
- Well Monitor - Water Injection
- Well Monitor – ESP Well
- Well Monitor - Gas Lift Well
- Well Monitor – Well Integrity
- Well Monitor – Flow Rate Monitor
- Well Monitor – Multiphase Meter
- Well Monitor – Downhole Gauge
- Facility Monitor - CCTV & Site Security
- Facility Monitor - Hazardous Gases
- Facility Monitor – Cathodic Protection Systems
- Drilling Monitor – CCTV and Data Monitor
- Wireline - Operations Monitor



Zencus ESP Monitor Demo Well 1

Surface Data

Wellhead Pressure	635 psi
Wellhead Temperature	120 °F
Flowline Pressure	529 psi

Pump Operating Data

Bottomhole Pressure	1,721 psi
Pump Intake Pressure	1,683 psi
Pump Discharge Pressure	2,615 psi
Pump Discharge Temperature	158 °F
Pump Flow Rate	5,561 bbl/d
Intake Free Gas	13 %
Fluid Level Above Pump	77 ft
Fluid Level Measurement Date	18/04/2010

Motor Operating Data

Motor Winding Temperature	197 °F
Motor Vibration	1.4 g
Current Leakage	9 mA
Current Imbalance	26 %
Voltage Imbalance	13 %

Perforation Data

Depth - Top of Perfs.	4,960 ft
Depth - Bottom of Perfs.	5,199 ft
Perf. Density	14 SPF
Pump Suction Depth	4,721 ft

ESP System Status

Make	Model	Serial No.
Pump: Zencus	ESP-001	Z-ESP-1-000012
Motor: Zencus	MOT-101	Z-MOT-1-000023

VSD Operating Data

Optimum Frequency	68 Hz
Operating Frequency	57 Hz
Current	152 A
Voltage	480 V

Reservoir Data

Reservoir Pressure	2,035 psi
Reservoir Temperature	163 °F
Measurement Date	20/06/2010
Productivity Index (PI)	17.7 bbl/dpsi

Flow Rate Graph

The graph shows Flow Rate (bbl/d) on the right y-axis (0 to 14,000) and Flow Rate (Metric) on the left y-axis (0 to 250). The x-axis is Time from 10/03/00:00:00 to 11/03/00:00:00. Multiple data series are plotted, including gas and oil flow lines and standard deviations.

- Web-based software.
- Intuitive and easy to use.
- Real-time plotting, graphing and trending.
- Alarms and diagnostic messages by email and SMS text message.

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