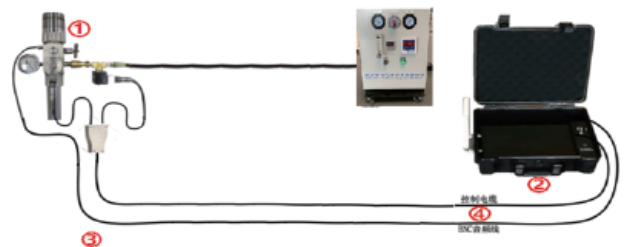


# SK-OLM Online Wellbore Liquid Level Monitoring System

## SK-OLM Online Wellbore Liquid Level Monitoring System

### Overview

- SK-OLM online wellbore liquid level monitoring system is a high-tech product developed by Shanghai Shenkai Petroleum & Chemical Equipment Co., Ltd. It is mainly used to test the depth of the downhole liquid level, especially in unattended on-site environment, automatically monitor the downhole annulus liquid level and wellhead casing pressure, and provide reliable on-site data for analyzing the changes in the downhole liquid level and taking effective measures.
- This system adopts advanced computer, signal processing and local wireless data transmission technology, as well as a precision-designed micro air gun type wellhead sound generator. It is characterized by integrated monitoring, small size, light weight, simple operation, friendly man-machine interface, low power consumption, powerful functions, etc.



### Features

- Integrated drilling and logging liquid level monitoring and leakage alarm system solves the respective shortcomings of logging and liquid level measurement, forming complementary advantages, and providing scientific and verifiable measures for well control;
- Continuous measurement, and the test frequency can be increased as needed;
- A nitrogen supply system is available to address the problems of nitrogen consumption costs and transportation;
- After installation, the safety risks caused by frequent opening and closing of valves as well as opening and shutting in of wells can be avoided, especially the human safety risks in emergency situations, such as forgetting to restore the state;
- Real-time recording and monitoring of drilling safety, and remote transmission of data to make up for the lack of timeliness in mastering the fluid level dynamics, and more advantageous to predict abnormalities;
- Indoor operation and monitoring to reduce safety risks;
- Traditional testing methods are considered;
- Opening measurement without delay in drilling construction;
- WITS data interface to provide input and output functions.

### Technical Indicators

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Depth measurement range	20-3000m, depth measurement error: $\leq 10\text{m}$
Pressure measurement range (optional)	0~2.5Mpa, pressure measurement error: $\leq 0.5\%$
Minimum test interval	1 minute
Maximum distance for local wireless operation	200m visual range
Explosion-proof type	Exd
Working temperature range	$-20^{\circ}\text{C}\sim +70^{\circ}\text{C}$
Relative working humidity	5%~95%