

Mobile Wellhead Data Acquisition and Control Unit

This mobile unit serves as a control center for fracturing operations. It acquires wellhead data and remotely controls fracturing units and blenders during shale gas and coalbed methane extraction.



ADDITIONAL IMAGES



Overview

Advanced Fracturing Control Center

This mobile data acquisition and control unit serves as the central command hub for fracturing operations, specifically designed for shale gas and coalbed methane extraction. It enables real-time monitoring, recording, and analysis of wellhead data while providing remote control capabilities for fracturing units and blenders. Built for harsh oilfield environments, the unit features a shockproof and sealed design to ensure secure and reliable performance during complex operations.

Control Capabilities

Control Capacity

24 sets

Max Fracturing Pumpers

1

Standard Blender Control

Technical Specifications

Controllable fracturing pumper quantity	0-24 sets
Signal channel	Analog quantity: 0-8 Digital quantity: 0-8 Ethernet connection: 4 / frequency signal
Optional chassis	MAN / BENZ / North-Benz
Engine	PANDA / KUBOTA
Cab structure	Single / Double
Computer configuration	AB PLC+AB HMI+LCD
Control mode	Remote control / Network control

Detailed technical breakdown of signal channels, control modes, and hardware configurations.

System Configuration

Component	Specification
Computer Configuration	AB PLC + AB HMI + LCD
Control Mode	Remote control / Network control
Optional Chassis	MAN / BENZ / North-Benz
Engine Options	PANDA / KUBOTA
Cab Structure	Single / Double

Signal & Connectivity

Input/Output Channels

- Analog quantity: 0-8 channels
- Digital quantity: 0-8 channels
- Ethernet connection: 4 channels
- Frequency signal monitoring

Cabin Features

FEATURES & SUPERIORITY

- The cabin is made of double high density compressed polyurethane panels with good heat preservation, heat-proofing and sound-proofing performance, providing a comfortable working environment.
- Compatible with all types of fracturing units.
- Capable of site communication and video monitoring.
- Multi-overpressure protection and alarm functions.
- The stern room is equipped with the display screen for parameters checking outside.
- Full touch screen control mode.

The cabin is constructed with high-density polyurethane panels for optimal thermal and acoustic insulation.

Cabin Design & Comfort

- Double high-density compressed polyurethane panels
- Superior heat preservation and heat-proofing
- Advanced sound-proofing for quiet operation
- Climate-controlled interior for harsh environments
- Shockproof and sealed performance

Safety & Monitoring

Safety & Monitoring Systems

Multi-overpressure Protection, Alarm Functions, Video Monitoring, Site Communication, Full Touch Screen Control, External Parameter Display

Operational Efficiency

Smart Automation

The unit utilizes advanced control algorithms for the automatic management of blender levels and density. It integrates seamlessly with fracturing unit engines and gearboxes via a control bus, allowing for precise adjustment and customized operational parameters according to specific site requirements.