



# Unico ESP

## Variable Speed Drive

*Next level control technology to  
maximize production and reliability*



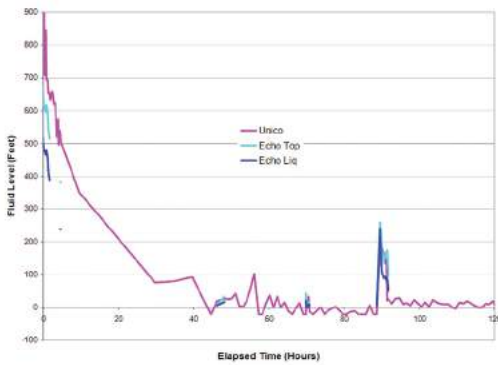
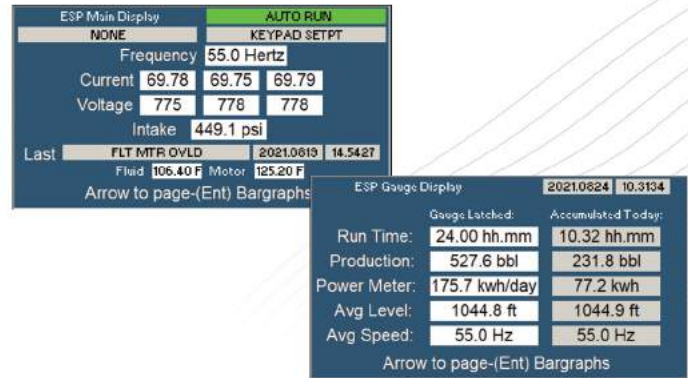
# Unique ESP Modeling

Unico ESP Variable Speed Drive systems have patented algorithms, sensorless fluid flow, level estimation, and well inflow simulation. This unique ESP modeling assists in control and optimization of the well.

With embedded intelligence built into every Unico ESP drive, you will achieve optimal performance and protection for CBM, HPS and deep oil well applications under all conditions.

## Simple Guided Setup

Easy access to data and setup parameters

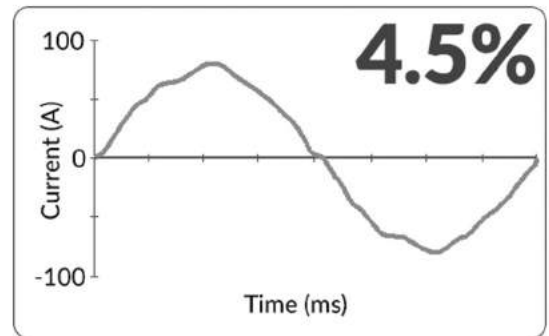


## Control and Optimization

Accurate and repeatable results with sensorless fluid level indication and control

## Reduce Cost and Footprint

AHD patented harmonic mitigation



60 hp 6-pulse Unico drive with AHD® control and passive harmonic input filter



# Why Unico ESP Drives are the Leaders in Optimization Automation

Patented algorithms in the drive maximize production while protecting the pumping system.

## Production Optimization

- Pump Intake Pressure Monitor & Control
- Well Inflow Simulator
- Gas Mitigation
- Pump Off Control
- Gas Lock Prevention
- Differential Pressure Monitor

## Energy Efficiency

- Current Limit Control
- Optimum Speed Control

## Equipment Protection

- Backspin Sensing
- Sensorless Speed/Torque Control
- Underload/Overload Protection
- Pump Torque
- Low Speed Detection
- Motor Thermal Limiter

## Advanced Features

- UEDIT-built in PLC
- System Modelling
- Mobile Device Connectivity
- PMM capability
- Sensorless Fluid Flow Estimate
- Stuck Pump Rocking Start
- Multi-Rate Acceleration
- Technical Support/Training
- Remote Connectivity



# Unico ESP Variable Speed Drive

## Maximum Performance

Unico ESP Variable Speed Drives offer application engineered drives for electric submersible pumps at power levels ranging from 10 to 1200 hp.

Unico ESP VSD's power disturbance ride through, backspin speed sensing, closed-loop speed and torque regulation, closed-loop fluid level control, patented sensor less fluid flow and level estimation, well inflow simulator, and rocking start ensure maximum performance from your ESP application.

## General Specifications

- HP range 10-1200HP
- Inlet Voltage 480/575  $\pm$  10%
- NEMA 4 enclosure
- UL Listed
- -40 to +50°C temp rated (derate to 55°C)



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