

# GEOESP 150 Dual

Stainless Steel 420

A reliable, accurate, and re-deployable downhole gauge designed specifically for use with ESP systems.



## Premium ESP Optimization

The GEOESP 150 Dual Downhole Gauge is designed to be mounted below the electrical submersible pump (ESP) system bottomhole assembly with an industry-standard flange connection. The reliable data this gauge provides allows for major efficiency gains for the well, and can help protect the system and minimize downtime.

## Key Benefits

- » Improved ESP Run Life
- » Optimized Production
- » Universally Compatible
- » Advanced ESP System diagnostic including industry-first BHA landed vertical inclination. Relative bearing measurement detects post-installation tubing movement
- » Reservoir data collection for transient pressure analysis

## Pump Discharge Pressure

Utilizing a pump discharge sub and a high-quality 4mm control line made in-house at our GEO PSI headquarters, the GEOESP 150 Dual gauge provides optional pump discharge pressure measurement. This enables an even greater level of insight for operators as to the optimization and health of the overall ESP system.



## Applications

- Conventional / Unconventional Oilfield ESP Wells
- Onshore / Offshore
- Water Lift & Water Injection / Disposal

## E6 Surface Interface Card

Downhole Telemetry Decoder



## 3 Phase Modular Choke

3 Phase 3 Fuse Design



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## Specifications

<b>Measurement</b>	Pump Intake & Discharge Pressure Intake & Motor Oil Temperature X & Z Axis Vibration Current Leakage Landed Position Within Completion	
<b>Construction Material</b>	Stainless Steel 420 (Other materials available upon request*)	
<b>Length</b>	34.30" / 87.13cm	
<b>Flange Size</b>	375 or 456 <sup>(1)</sup>	
<b>Outside Diameter</b>	3.75" / 95.25mm <sup>(2)</sup>	
<b>Seal Type</b>	Aflas	
<b>Pressure Measurement Location</b>	<b>Pump Intake</b>	<b>Pump Discharge</b> (Optional**)
<b>Pressure Intervals</b>	7 Seconds	23 Seconds
<b>Pressure Range</b>	5,800 psiA <sup>(2)</sup>	5,800 psiA <sup>(2)</sup>
<b>Pressure Accuracy</b>	0.1% Full Scale	0.1% Full Scale
<b>Pressure Resolution</b>	0.1 psi	0.1 psi
<b>Temperature Measurement Location</b>	<b>Pump Intake</b>	<b>Motor Oil / Windings</b>
<b>Temperature Intervals</b>	7 Seconds	7 Seconds
<b>Temperature Range</b>	0-150°C	0-250°C
<b>Temperature Accuracy</b>	±1°C	±1°C
<b>Temperature Resolution</b>	±0.1°C	±0.1°C
<b>Vibration Measurement</b>	<b>X &amp; Z Axis</b>	
<b>Vibration Range</b>	0-10g	
<b>Vibration Accuracy</b>	1% Full Scale	
<b>Vibration Resolution</b>	0.01g	
<b>Vibration Intervals</b>	23 Seconds	
<b>Current Leakage</b>	25.0mA, 0.1mA, 0.01mA	
<b>Landed Position Within Completion</b>	Relative Bearing (360°) / Tilt (90°)	
<b>Landed Position Resolution</b>	0.108°	

\* This gauge can be manufactured in a variety of different materials based on clients' need and the material used for the tubing string. For material options please contact us.  
 \*\* If pump discharge pressure is not needed the gauges discharge pressure port can be plugged or used as redundant measurement point.  
 (1) 375 or 456 tool head flange size. Wide range of standard motor adapters available upon request.  
 (2) 10,000 psi option available upon request. To accommodate higher pressures some mechanical specifications will vary including thicker gauge housing and 4.25" Outside Diameter.