

EDGE EHS ESP SENSORS

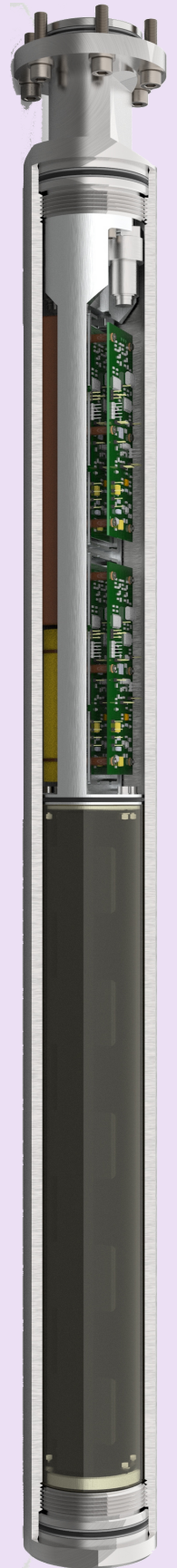
High Speed Comms for a long life ESP



GROUND FAULT ZERO

EHS - Ground Fault Zero ESP Sensor

The EDGE EHS Ground Fault Zero (GFZ) ESP monitoring platform offers three different sensors. All operate with an ESP ground fault present including a dead-short, have hi-speed communications and are capable of communicating with multiple data gathering systems and digital platforms. The three sensors are highlighted below where the 'Enhanced' and the 'Advanced' sensors have evolved from the 'Primary' sensor.



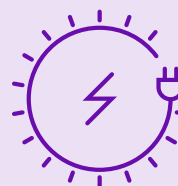
Configuration	EHS GFZ SENSOR TYPES		
	Primary GFZ Sensor	Enhanced GFZ Sensor	Advanced GFZ Sensor
Parameters Measured			
Pump Intake Pressure	✓	✓	✓
Pump Discharge Pressure	✓	✓	✓
Well Temperature	✓	✓	✓
Motor Oil/Winding Temperature	✓	✓	✓
Current Leakage	✓	✓	✓
Vibration X & Y	✓	✓	✓
Wye Point Voltage	✓	✓	✓
Technology			
Temperature Rating 150C	✓	✓	✓
Operates Under a Full ESP Ground Fault	✓	✓	✓
Hi – Speed Communications Pump Intake Pressure up to 3x Per Sec	✓	✓	✓
EDGE Standard Digital Surface System	✓	—	—
High Accuracy Quartz Crystal transducer	—	✓	✓
Bi-Directional High Speed Communication	—	✓	✓
EDGE Configurable & Customised Digital Surface System – Well Site Control Hub	—	✓	✓
Control of Completion Equipment	—	—	✓



**Pump intake pressure
3 times/second**



**Capable of 50X than
other ESP sensors**



**Ground Fault Zero
(inc. Dead Short)**

Why Use Edge?



Pump intake pressure
3 times/second



Capable of 50X faster
than other ESP sensors



Ground Fault Zero
[inc. Dead Short]

10 Reasons to Use EDGE

1. The EHS ground fault sensor provides real time data when a ground fault is present including a dead-short.
2. 50 times faster Hi-Speed communications than other ESP monitoring systems.
3. Provides three full 8 parameter data sets per second.
4. Pump intake pressure 3 times per second.
5. Designed to tolerate temperature spikes on ESP shutdowns.
6. Communicate with the sensor via bi-directional communications.
7. Programmable system offering a customised data set.
8. Real time monitoring of the down hole ESP motor wye point voltage.
9. Upgradable to include quartz crystal pressure transducers, high accuracy real time reservoir monitoring.
10. Designed, manufactured and supported by field proven professionals with a proven track record of bringing monitoring technology to the artificial lift market.



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