

# EDGE EHS ESP SENSORS

High Speed Comms for a long life ESP



**TECHNICAL DATA SHEET**

# GROUND FAULT ZERO

# EHS-GFZ 'Ground Fault Zero' ESP Sensor

Real time ESP and reservoir monitoring is essential to enhance oil recovery and improve the ESP performance. The Edge ESP Ground Fault Zero sensors can operate under a full ground fault condition and provide up to 3 full packets of hi-speed real time data every second. Taking ESP monitoring into ground breaking new levels aiding in field development and improving production. The sensors are available in different models to suit the application and economic impact of installing the system on your ESP.

## Technical Specifications

Parameter	Units	Range	Resolution	Accuracy (FS)
Pump Intake Pressure	Psi/ Bar	0-400/ 0-690 bar	0.01 Psi	0.1%
Pump Discharge Pressure	Psi/ Bar	0-400/ 0-690 bar	0.01 Psi	0.1%
Well Temperature	C/F	0-150C	0.01 C	0.1%
Motor Oil/Winding Temperature	C/F	0-260C	0.01 C	0.1%
Vibration X & Y	g	0-20	0.001	1%
Current Leakage (Insulation)	mA	0-75mA	0.1mA	0.1%
Wye Point Voltage	Vac	0-3.5kV	1V	5%

### Electrical Characteristics

Input Power requirement (readout panel)	110v/240v @40 – 60Hz, 0.75kW
Surface Choke	Surface Choke 5kV max.
Operating Voltage (DC)	Up to 150V
Operating Current (DC)	Up to 50mA

### Features

Ground Fault Resistant	Yes – Including dead-short
Pump intake pressure	Up to 3 readings per second
Update rate	Up to 3 packets per second
Transducer Type	Strain gauge. (Quartz is available on request).
Transducer Seal	Metal to Metal
Sensor length	3.94ft (1.2m)
Sensor OD	4.56" as a standard
Weight	15Kg
Metallurgy	13Cr standard. (Other materials on request).
Elastomers	Viton. (Other elastomers on request).
Top Connection	4.56" flange. (Other sizes on request).
Bottom connection	2 3/8 EUE 8 RND box

