EDGE TECHNOLOGIES LTD

EDGE EHS ESP SENSORS

High Speed Comms for a long life ESP

UNIVERSAL-6 ESP SENSOR

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EHS Universal ESP Sensor

The Edge 150C High Speed Universal ESP Sensor is installed on the bottom of the ESP motor using a flange connection and is electrically connected to the motor via the wye point.The sensor is designed to operate under challenging ESP conditions providing vital downhole data 3 times faster than other ESP sensors, to allow the operator to optimise production while cautiously running the ESP. The sensor is also available with transmission rates up to 50 times faster and 4 times superior reservoir pressure accuracy than other ESP sensors.

All parameters transmitted every 10 seconds

3X faster than other ESP sensors

Compatible with all ESP types

Features

- Capable of communicating 3X faster than other ESP sensors.
- Up to 10X greater pressure resolution than other ESP sensors.
- All parameters are transmitted in 10 seconds.
- Designed to tolerate temperature spikes.
- Can be upgraded to high accuracy quartz transducers.

Benefits

•Providing real time data every 10 seconds incl. reservoir pressure.

•Aid in better reservoir management to improve production while protecting the ESP.

•Lower ESP operating costs.

•Reduce ESP early failure rate & increase ESP runlife.

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Technical Specifications

EHS Universal-6 Measured Parameters

Parameter	Units	Range	Resolution	Accuracy (FS)
Pump Intake 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%

EHS Universal-6 Features & Dimensions

	Features
Hi-Speed Communications	3X faster than other ESP sensors
Update rate	Full packet every 10 seconds
Transducer Type	Strain gauge. (Quartz is available on request).
Transducer Seal	Metal to Metal
Sensor length	3.04ft (1.0m)
Sensor OD	4.56" as a standard (4" available on request)
Weight	12Kg
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
Upgrade	Up to 50x faster than other ESP sensors Hi - Accuracy pressure reading 0.025% F.S

EHS Universal-6 Electrical Characteristics

	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

Accessories

Motor base Crossover	Available for all motors in various metallurgies.
Installation kits	Surface and downhole installation kits are available.

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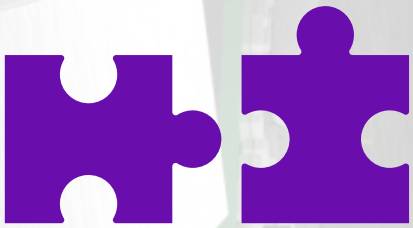
Why Use Edge?

All parameters every 10 seconds

3X Faster than other ESP Sensors



Compatible with all ESP Types

Why Use EDGE EHS-Universal ESP Sensors

1. Capable of communicating 3X faster than other ESP sensors.
2. All parameters transmitted every 10 seconds.
3. Up to 10X greater pressure resolution than other ESP sensors.
4. Designed to tolerate temperature spikes on ESP shutdowns.
5. Operates with all types of VSDs and drives.
6. Programmable system offering a customised data set.
7. Upgradable to include quartz crystal pressure transducers, high accuracy real time reservoir monitoring.
8. Designed, manufactured and supported by field experienced professionals with a proven track record of bringing monitoring technology to the artificial lift market.

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