

# DOWNHOLE GAUGE SYSTEMS

Apex Advanced offer a series of sub-surface gauges for real time monitoring of downhole well conditions for a variety of Artificial Lift Systems. Accurately monitoring specific parameters provides valuable information to better optimize fluid production, as well as providing system protection to extend the operational life and reduce the well intervention or work-over frequency.

## BASIC DOWNHOLE GAUGE SYSTEM

- Provides with basic downhole information
  - Intake Pressure and Temperature
- Can be installed directly to tubing string with a clamp.
  - Does not require specialized gauge carriers.
- Surface interface is scalable to site requirements
  - Datalogger with serial Comm Port (No Display)
  - Stand Alone Surface Read Out (Display)

## ADVANCED DOWNHOLE GAUGE SYSTEMS

- Provides complete downhole information
  - Intake Pressure and Temperature
  - Discharge Pressure and Temperature (optional)
  - Vibration on Vertical and Horizontal axis
- Dual pressure gauges allow calculation of pump efficiency
- Real-time data can be used to pro-actively adjust pump speed to increase pump life.
- Surface interface is scalable to site requirements
  - Datalogger with serial Comm Port (No Display)
  - Stand Alone Surface Read Out (Display)
- Logged data can be used to model the well reservoir.

## HIGH TEMPERATURE DOWNHOLE GAUGE SYSTEMS

- Specially designed for thermal well applications (**up to 260°C**)
  - Intake or Discharge Pressure and Temperature
  - No electronics downhole increases life of instruments.
- Gauge comes assembled and calibrated from factory. (No assembly required)
- Surface Panel provides on-screen data, and can communicate with other devices.

## SPECIFICATIONS:

Parameter	Units	Range	Resolution	Accuracy
Pressure	psi / Bar	0 - 5800 psi	0.1 psi	0.1%
Temperature	°C / °F	0 - 150 °C	0.1 °C	1.0 °C
		0 - 260 °C (High Temp)		
Vibration	g	0 - 10 g	0.001 g	1.0%

- Gauge Housing Material: 316 Stainless Steel. Also available in 400 Monel
- Gauge OD: 0.9 Inch (Basic), 1.125 Inch (Advanced and High Temp)
- Gauge Overall Length: 14.3 inch (Basic), 30 inch (Advanced), 10 inch (High Temp)

