



***Extreme Telematics Corp.***

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***EXTREME TECHNOLOGY FOR EXTREME CONDITIONS***

## INNOVATIVE

Sasquatch is the next stage in the evolution of plunger detection. As the first ever plunger velocity sensor, not only will Sasquatch signal that a plunger has arrived, velocity of the plunger will be measured at surface. Repetitive fast plungers are a common problem in plunger lift causing costly damage to equipment and production downtime. A lubricator breach can lead to incident reports, spills and injuries. Sasquatch gives you the power to prevent these occurrences by enabling

detection of fast plungers long before they cause problems.

The unique design of Sasquatch is based on the proven Geomagnetic Sensing Technology™ behind the Cyclops® plunger arrival sensor. ETC's innovative line of plunger sensors provides advantages that no other plunger sensors offer, such as the ability to adjust sensitivity, upgrade software, or troubleshoot problematic wells right at the wellhead.

## OPERATION

Sasquatch is based on the trusted Geomagnetic Sensing Technology™ behind the Cyclops plunger arrival sensor. A proven patent-pending algorithm allows Sasquatch to quickly and accurately measure the surface velocity of a plunger as it travels by the sensor. Up to 120 arrivals with date, time and velocity information are available to download right from the unit on-site to ensure Sasquatch is watching even when your control system is not.

For best results, use Sasquatch in conjunction with ETC's patented Adaptive Seeking Velocity Optimization™ to improve production. This intuitive algorithm reduces the need for operator intervention (thus eliminating opportunities for human error) by making adjustments that are proportional to the current flow/close time. This method was used with average plunger velocity to double gas well production in a 2015 case study. Visit [www.etccorp.ca](http://www.etccorp.ca) to download the study results.



**PREVENT** DAMAGE, SPILLS, & INJURIES  
BY **DETECTING & CORRECTING**  
DANGEROUS **FAST PLUNGERS.**

## RELIABLE

Sasquatch is built to sustain extreme cold and hot temperatures, operating reliably from -40°C to +70°C (-40°F to +160°F). Sensitivity is adjustable to accommodate a wide range of plungers and lubricators, eliminating missed arrivals. An embedded micro-processor filters out environmental noise caused by nearby equipment or electrical storms, minimizing false detections. A rugged watertight aluminum enclosure protects Sasquatch from the elements, and built-in mounting provides snug and secure installation on a lubricator.

## VERSATILE

Sasquatch features a ½" NPT port to connect either a Teck connector and armored cable, or a standard cable gland and instrumentation cable. A single Sasquatch operates over a wide range of input voltages, simplifying inventory management.

## COMMUNICATION

Sasquatch acts as a Modbus slave, with an integrated communications port to access current and historical information regarding plunger arrivals and velocity readings locally or remotely with your preferred controller or SCADA system. This port also enables communication with Vision Device Management Software to upgrade firmware, troubleshoot problematic wells, and access advanced settings to tune Sasquatch for use with any control system.

## SPECIFICATIONS

Supply Voltage	5 V - 24 V DC
Current Draw	Typ. - 9.05 mA, Max. - 13.3 mA
Switch Interface	Dry contact, normally open, 100 Ω impedance
Communications Interface	2 wire RS-485 Modbus Slave
Range	50 m/min to 1,000 m/min (164 ft/min to 3,281 ft/min)
Accuracy	+/- 8% @ 250 m/min (820 ft/min)
Operating Temperature	-40°C to +70°C (-40°F to +160°F)
Certification	<ul style="list-style-type: none"><li>• Class I, Zone 0, AEx ia IIC T4</li><li>• Class I, Division 1, Groups A, B, C, D T4; Ex ia IIC T4</li><li>• Class I, Zone 2, Group IIC T4</li><li>• Class I, Division 2, Groups A, B, C, D T4</li></ul>



**Use Sasquatch with the **NEW Iris Wireless Bridge** for Zone 0/Div 1 certified wire-free operation!**  
*Contact your preferred reseller for more information.*