



R L Laughlin

VIACELL-20

www.rllco.com

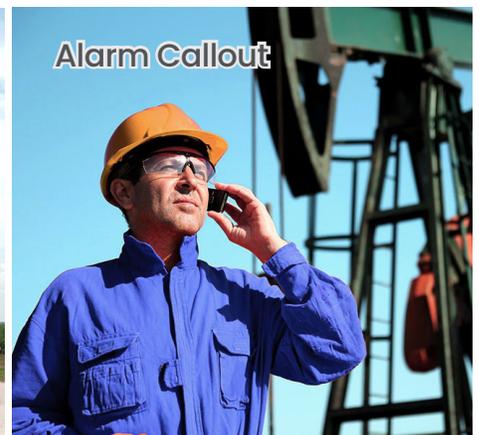
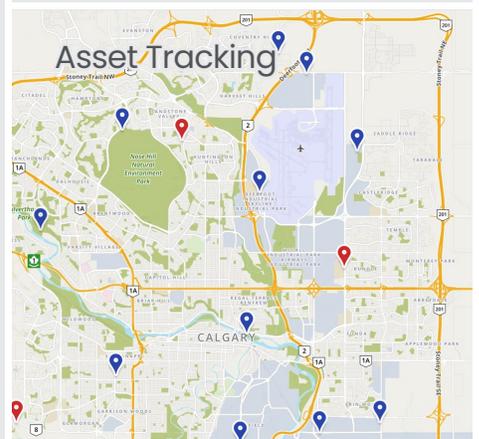
info@rllco.com

ViaCell-20

Cellular Vibration Monitoring with GPS Tracking

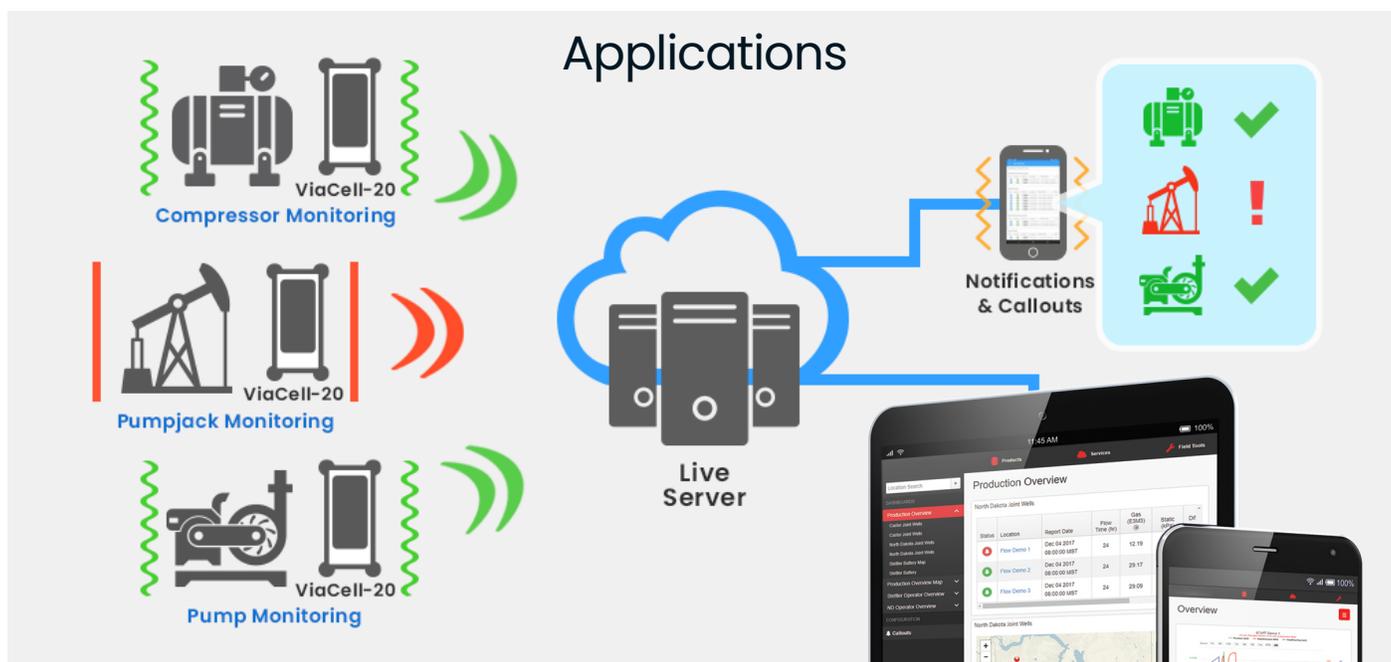
The ViaCell-20 is a magnetic-mount, cellular vibration and GPS monitoring device with built-in solar panel and batteries. The ViaCell-20 is ideal for use in monitoring the run status of compressors, generators, pumps, rental units, and more.

ViaCell-20



ViaCell-20 Specifications

| | |
|-------------------------|--|
| Connection | Cellular, 4G LTE Cat M1 / NB-IoT / EGPRS |
| Monitoring Applications | Compressors, Generators, Motors, Pumps, Rental Units, Run Status, Doors, Intermodal Containers, and More |
| Built-In Sensors | Vibration, Temperature, GPS |
| Optional Sensors | BLE Door Switch Sensor, BLE Temp & Humidity Sensor |
| Alarm Callout | Callout Notification via SMS, Email, or Voice Messages |
| Call Lists | Escalating call lists notifies available staff of shutdowns |
| Dimensions | 95 mm x 195 mm x 45 mm (3.74" x 7.68" x 1.77") |
| Temperature | -30° C to +65° C (-22° F to 158° F) |
| Power | Built-in Solar Panel with Rechargeable Battery |
| Enclosure | Weatherproof IP67 |
| Mounting | Magnetic |



RLLCO Live

The ViaCell-20 works with RLLCO Live out-of-the-box. RLLCO's cloud-based SCADA / IoT Platform shows the status of your asset, and sends alarm callout notifications via SMS, Voice, or Email.



Technical Specifications

Network Specifications

Operating Band

FDD: B1/B2/B3/B4/B5/B8/B12/B13/B19/
B20/B25/B28

TDD: B39 (Cat M1 only)

EGPRS 850/900/1800/1900MHz

Certification

FCC: B2/B4/B5/B12/B13/B25/B26

(Cat M and NB-IoT)

Data Transmission

eMTC: Max. 300Kbps (DL), Max. 375Kbps
(UL)

NBI: Max. 32Kbps (DL), Max. 70Kbps (UL)

EDGE: Max. 296Kbps (DL), Max.
236.8Kbps (UL)

GPRS: Max. 107Kbps (DL), Max. 85.6Kbps
(UL)

GNSS Specifications

GNSS Chipset

Qualcomm Gen 8C GNSS receiver

GNSS System

GPS+Glonass+Galileo+Beidou

Receiver type

33 tracking / 99 acquisitions-channel
GNSS receiver

Sensitivity

Cold start: -149 dBm

Tracking: -163 dBm

Position Accuracy in open sky (CEP-50)

< 2m

Standalone TTFF

Cold start: < 29s

Warm start: < 27s

Hot start: < 1s

Technical Specifications

General Specifications

| | |
|-------------------------------|--|
| Waterproof | IP67 |
| Dimensions | 95 mm x 195 mm x 45 mm (3.74" x 7.68" x 1.77") |
| Weight | 450g (0.99lbs) |
| Battery | Rechargeable Li 9600 mAh/ 3.6V |
| Standby Time | Without reporting: 1440 hours (60 Days) 1 hour reporting: 720 hours (30 Days) |
| Charging & Data Communication | Magnetic USB cable (recommend using 5V 1A adaptor, 20 hours charging) |
| Solar Panel | For charging internal battery |
| Operating Temperature | -30° C to +70° C (-22° F to 158° F) |
| Mounting | Magnet / Screw |

Interfaces

| | |
|--------------------------------|----------------------------------|
| Charging and Data Transmission | 4 Pin port with magnet |
| Network, GNSS Antenna | Internal only |
| Indicator LED | Network, GNSS, and Battery level |
| FOTA | Yes |
| Physical Power Switch | 1 |
| Light Sensor | 1 back light sensor |
| Temperature Sensor | 1 temperature sensor |
| BLE 5.0 | Yes |

RLLCO Features

RLLCO Live is an enterprise remote monitoring solution for industrial applications. The system is fully-featured with real-time monitoring, powerful graphing features, alarm callouts via Voice / SMS / Email, a wide-range of supported devices and drivers, as well as data import and export, all packaged in an all-inclusive hosting package.

Full Service Monitoring

No need to hire expensive contractors or in-house SCADA technicians. RLLCO takes care of all the technical details of your remote monitoring.

Trending & Historical Data

RLLCO Live collects remote sensor data and delivers the data to you through our web portal. Long-term historical data retention allows in-depth analysis of production or operation data.

24 / 7 Support

RLLCO understands the importance of your data. That is why we provide 24 / 7 support.

Web Access and Mobile App

Access your data anytime, anywhere. Data can be viewed through any web browser, or you can download our mobile app for Android or iOS.

Alarm Callouts

Real-time alarm callout system sends notifications to clients via Voice, SMS, and/or Email to indicate an alarm has been reached at a remote location.

Drivers and Devices

Our data collection engine is designed to work with a wide-range of sensors and devices.