# IDS PRODUCTS BROCHURE

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# 1 PRODUCT OVERVIEW

***tetrascan* Programmable Surface Gauge System**

**IDS's new *tetrascan* PSG system** represents the latest evolution of IDS's wireless programmable surface gauge technology. ***tetrascan's*** innovative data acquisition, wireless connectivity, data management, reporting and improved power management features provide an ideal, cost-effective solution for well and facility mechanical integrity surveillance applications.

***tetrascan* offers 4 connectivity modes: *tetrascan*** is the only portable, wireless data acquisition system of its kind to combine secure Bluetooth, cellular, Wi-Fi and USB communications capabilities, all within a single, battery-powered, easy-to-install weather-proof enclosure.

**Bluetooth connectivity:** For secure on-site bi-directional wireless communications such as programming, real-time data queries or downloading, simply utilize ***tetraware*** support software along with ***tetrascan's*** Bluetooth communications feature on either Android, Windows or Mac devices to avoid need for approaching wellhead or other potentially hazardous zones.

**Cellular connectivity: *tetrascan's*** cellular communications capability and ***tetraware-web*** combination enables users to program, acquire real-time data reports, and download ***tetrascan*** PSGs remotely.

**Wi-Fi connectivity:** Any number of ***tetrascan*** PSGs can be connected on user's Wi-Fi router to IDS' secure ***tetraware-web*** online portal. User may choose to provide satellite modem connection in areas without cellular network coverage; or to have a dedicated network not connected to the internet. In this case IDS will provide user with a dedicated server loaded with all required software. IDS also offers its new ***tetrarouter*** secure Wi-Fi / cellular gateway system that features lower energy consumption and a solar-powered battery backup system.

**Alarm notifications:** Users can select both low and high process monitoring scale limits in ***tetrascan's*** monitoring program setup menu that will immediately trigger alarm notification messages should either pre-set boundary be crossed.

**Programmable data acquisition, display and transfer rates: *tetrascan*** enables users to select data acquisition/recording intervals from 0.1 second to 24 hours. Complete real-time data updates are transferred to ***tetraware-web's*** online portal via secure cellular transmission also at user-selected message intervals.

**Advanced power management system: *tetrascan*** is powered by a replaceable D-cell lithium battery with an operating life of three years or more between battery changes. ***tetrascan's*** internal memory capacity of 16 million data sets offers the largest memory size available anywhere; along with several added-value features including a complete supporting data management and secure communications software package at no additional cost.

**Reduce operating costs:** ***tetrascan's*** wireless bi-directional communications capability can reduce user's field operating costs; reduces need for field personnel visits to obtain gauge readings and/or change gauge operating program parameters. ***tetrascan*** also simplifies journey-management concerns; reduces need for vehicle travel to remote locations over poor roads, bad weather, poor offshore travel and/or other local unsafe conditions.

**IDS's *tetrascan* series PSG systems are available in 3 models**: including Static Pressure, RTD Temperature, and Combustible Gas Detection. Each model can operate either as a standalone installation, or as part of a multi-gauge cluster that includes any combination of ***tetrascan*** PSGs.

# 2 *tetrascan* PSG MODELS

## 2.1 T101-X (Pressure)

*Programmable Surface Pressure Gauge equipped with Bluetooth, cellular, Wi-Fi and USB communication.*

Only ***tetrascan*** PSGs allow secure, real-time, remote access to configuration settings and transmitted data via ***tetraware-web*** but, like all ***tetrascan*** PSG models, T101-X is a digital memory gauge, designed to acquire real-time gauge data from a safe distance. Live mode allows T101-X to stream inline pressure data, from hazardous areas in real time to any Windows, Android or Mac device running ***tetraware*** or ***tetraware-web***.

Features:

- Fully ATEX certified.
- Wetted material: 316L SS (Inconel 718 and Hastelloy C276 available on request).
- Ranges (X) (psi): 0.1K, 0.5K, 1K, 3K, 5K, 10K, 20K, 30K.
- Accuracy: ≤ ±0.25% FS.
- Local Bluetooth/USB communication accessible via ***tetraware***.
- Worldwide cellular/WiFi communication accessible via ***tetraware-web***.
- Powered by a single off the shelf primary Lithium D-Cell.
- Back lit internal LCD display (includes both blank metal and glass window covers).
- User programmable options to optimize battery life.
- Please see technical datasheet for additional information.

# T101-X Tetrascan Programmable Surface Gauge

Pressure datalogger with wired/wireless communication.

## TECHNICAL DATASHEET

### MECHANICAL

| | |
|---|---|
| Sour service | Oil / Gas / Water |
| Overall height | 15.5" (394 mm) |
| Overall width | 4.0" (102 mm) |
| Overall depth | 5.6" (143 mm) |
| Approximate weight | 6.6 lb (3 kg) |
| Enclosure material | Low copper alluminum alloy |

### PRESSURE SENSOR

| | |
|---|---|
| Ranges (X) (psi) | 0.1K, 0.5K, 1K, 3K, 5K, 10K, 20K, 30K |
| Accuracy | ≤ ±0.25% BFSL |
| Accuracy (>10K psi) | ≤ ±0.5% BFSL |
| Stability (1 Year) | ≤ ±0.25% of FS |
| Compensated temp. | +0°C to +55°C (+32°F to +131°F) |
| Wetted material* | 316L SS, Hastelloy C276* |
| Process connection(psi) | ≤10K – ½" NPT(M); >10K - Autoclave(F) |

* Inconel 718 and Hastelloy C276 available on request.

### AMBIENT TEMPERATURE

| | |
|---|---|
| With metal cover | -20°C to +80°C (+32°F to +176°F) |
| With glass ported cover | -20°C to +60°C (+32°F to +140°F) |

### POWER

| Battery type | Lithium | Alkaline |
|---|---|---|
| Manufacturer part # | SAFT LS33600 | Duracell MN1300 |
| Min. operating temp. | -60°C (-76°F) | -20°C (-4°F) |
| Max. operating temp. | +85°C (+185°F) | +54°C (+130°F) |
| Shipped with gauge | No | No |
| Battery size | 1 x D-Cell | 1 x D-Cell |
| Battery life* | 2.5 years | N/A |

* Estimation based on 30s sample rate, 6hrs online rate @ 25°C.

### DATALOGGING

| | |
|---|---|
| Memory capacity | 16 million datapoints |
| Sample rate | 0.1 seconds to 24 hours |
| Online rate* | 10 minutes to 24 hours |

* Maximum online rate will be based on sample rate.

### COMMUNICATION

| | |
|---|---|
| USB* (v2.0) | 1m micro USB cable |
| Bluetooth* (v5.0) | Upto 75m based on host device |
| Cellular** (4G or 2G) | Upto 10km based on network |
| WiFi** (WPA2) | Upto 75m based on router |
| Operating system | Windows ≥10, Android, Mac OS or iOS |
| Browser | Google chrome |

* View live data, program and download jobs (on demand).
** View all data and program gauge based on online rate.

### CERTIFICATIONS and STANDARDS

| | |
|---|---|
| Conforms to Standards | UL 61010 and UL 1203 |
| European Conformity | CE2903 |
| Explosion Proof Marking | Ex II 2G |
| ATEX Marking | Ex db IIB T5 Gb IP66 |

IP66

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## 2.2 T102-X (Temperature)

*Programmable Surface RTD Temperature Gauge equipped with Bluetooth, cellular, Wi-Fi and USB communication.*

Only ***tetrascan*** PSGs allow secure, real-time, remote access to configuration settings and transmitted data via ***tetraware-web*** but, like all ***tetrascan*** PSG models, T102-1 is a digital memory gauge, designed to acquire real-time gauge data from a safe distance. Live mode allows T102-1 to stream inline temperature data, from hazardous areas in real time to any Windows, Android or Mac device running ***tetraware*** or ***tetraware-web***.

Features:

- Fully ATEX certified.
- Probe length (X): 2", 3", 4" (Longer probe lengths available on request).
- Range: -50°C to +120°C (-58°F to +248°F).
- Accuracy: Class B per IEC 60751.
- Local Bluetooth/USB communication accessible via ***tetraware***.
- Worldwide cellular/Wi-Fi communication accessible via ***tetraware-web***.
- Powered by a single off the shelf primary Lithium D-Cell.
- Back lit internal LCD display (includes both blank metal and glass window covers).
- User programmable options to optimize battery life.
- Please see technical datasheet for additional information.

# T102-X Tetrascan Programmable Surface Gauge

Temperature (RTD) datalogger with wired/wireless communication.

## TECHNICAL DATASHEET

### MECHANICAL

| | |
|---|---|
| Service | Oil / Gas / Water |
| Overall height | 18" (458 mm) (3" sensor) |
| Overall width | 4.0" (102 mm) |
| Overall depth | 5.6" (143 mm) |
| Approximate weight | 6.6 lb (3 kg) (3" sensor) |
| Enclosure material | Low copper alluminum alloy |

### TEMPERATURE SENSOR

| | |
|---|---|
| Range | -50°C to +120°C (-58°F to +248°F) |
| Accuracy | Class B per IEC 60751 |
| Compensated temp. | -40°C to +85°C (-40°F to +185°F) |
| Probe length (X)* | 2", 3", 4" |
| Thermowell | Optional |
| Sensor material | 321 SS |
| Process connection | Spring loaded adaptor for thermowell |

* Longer probe lengths available on request.

### AMBIENT TEMPERATURE

| | |
|---|---|
| With metal cover | -20°C to +80°C (+32°F to +176°F) |
| With glass ported cover | -20°C to +60°C (+32°F to +140°F) |

### POWER

| Battery type | Lithium | Alkaline |
|---|---|---|
| Manufacturer part # | SAFT LS33600 | Duracell MN1300 |
| Min. operating temp. | -60°C (-76°F) | -20°C (-4°F) |
| Max. operating temp. | +85°C (+185°F) | +54°C (+130°F) |
| Shipped with gauge | No | No |
| Battery size | 1 x D-Cell | 1 x D-Cell |
| Battery life* | 3 years | N/A |

* Estimation based on 30s sample rate, 6hrs online rate @ 25°C.

### DATALOGGING

| | |
|---|---|
| Memory capacity | 16 million datapoints |
| Sample rate | 0.1 seconds to 24 hours |
| Online rate* | 10 minutes to 24 hours |

* Maximum online rate will be based on sample rate.

### COMMUNICATION

| | |
|---|---|
| USB* (v2.0) | 1m micro USB cable |
| Bluetooth* (v5.0) | Upto 75m based on host device |
| Cellular** (4G or 2G) | Upto 10km based on network |
| WiFi** (WPA2) | Upto 75m based on router |
| Operating system | Windows ≥10, Android, Mac OS or iOS |
| Browser | Google chrome |

* View live data, program and download jobs (on demand).
** View all data and program gauge based on online rate.

### CERTIFICATIONS and STANDARDS

| | |
|---|---|
| Conforms to Standards | UL 61010 and UL 1203 |
| European Conformity | CE2903 |
| Explosion Proof Marking | Ex II 2G |
| ATEX Marking | Ex db IIB T5 Gb IP66 |

IP66

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## 2.3 T103-1 (Combustible Gas)

*Programmable Surface Combustible Gas Detection Gauge equipped with Bluetooth, cellular, Wi-Fi and USB communication.*

Only ***tetrascan*** PSGs allow secure, real-time, remote access to configuration settings and transmitted data via ***tetraware-web*** but, like all ***tetrascan*** PSG models, T103-1 is a digital memory gauge, designed to acquire real-time gauge data from a safe distance. Live mode allows T103-1 to stream gas detection data, from hazardous areas in real time to any Windows, Android or Mac device running ***tetraware*** or ***tetraware-web***.

Features:

- Fully ATEX certified.
- Range: 0 - 100% LEL methane.
- Response time (t90): < 12 seconds.
- Sensor life: 6 months.
- Local Bluetooth/USB communication accessible via ***tetraware***.
- Worldwide cellular/Wi-Fi communication accessible via ***tetraware-web***.
- Powered by a single off the shelf primary Lithium D-Cell.
- Back lit internal LCD display (includes both blank metal and glass window covers).
- User programmable options to optimize battery life.
- Please see technical datasheet for additional information.

# T103-1 Tetrascan Programmable Surface Gauge

Combustible gas datalogger with wired/wireless communication.

## TECHNICAL DATASHEET

### MECHANICAL

| | |
|---|---|
| Service | Oil / Gas / Water |
| Overall height | 14.5" (369 mm) |
| Overall width | 7.3" (184 mm) (with mount) |
| Overall depth | 5.6" (143 mm) |
| Approximate weight | 7.7 lb (3.5 kg) |
| Enclosure material | Low copper alluminum alloy |
| Mounting hardware | For 2" pipe |

### GAS SENSOR

| | |
|---|---|
| Range | 0 - 100% LEL methane |
| Response time (t90) | < 12 seconds |
| Max. gas concentration | 5% methane in air |
| Recalibration | Every 6 months |
| Compensated temp. | -40°C to +60°C (-40°F to +140°F) |
| Housing material | 303 SS |

### AMBIENT TEMPERATURE

| | |
|---|---|
| With metal cover | -20°C to +60°C (+32°F to +140°F) |
| With glass ported cover | -20°C to +60°C (+32°F to +140°F) |

### POWER

| Battery type | Lithium | Alkaline |
|---|---|---|
| Manufacturer part # | SAFT LS33600 | Duracell MN1300 |
| Min. operating temp. | -60°C (-76°F) | -20°C (-4°F) |
| Max. operating temp. | +85°C (+185°F) | +54°C (+130°F) |
| Shipped with gauge | No | No |
| Battery size | 1 x D-Cell | 1 x D-Cell |
| Battery life* | 0.5 years | N/A |

* Estimation based on 30s sample rate, 6hrs online rate @ 25°C.

### DATALOGGING

| | |
|---|---|
| Memory capacity | 16 million datapoints |
| Sample rate | 1 second to 24 hours |
| Online rate* | 10 minutes to 24 hours |

* Maximum online rate will be based on sample rate.

### COMMUNICATION

| | |
|---|---|
| USB* (v2.0) | 1m micro USB cable |
| Bluetooth* (v5.0) | Upto 75m based on host device |
| Cellular** (4G or 2G) | Upto 10km based on network |
| WiFi** (WPA2) | Upto 75m based on router |
| Operating system | Windows ≥10, Android, Mac OS or iOS |
| Browser | Google chrome |

* View live data, program and download jobs (on demand).
** View all data and program gauge based on online rate.

### CERTIFICATIONS and STANDARDS

| | |
|---|---|
| Conforms to Standards | UL 61010 and UL 1203 |
| European Conformity | CE2903 |
| Explosion Proof Marking | Ex II 2G |
| ATEX Marking | Ex db IIB T4 Gb IP66 |

IP66

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# 3 *tetrascan* PSG System Operating Features

| Feature | T101-X STATIC PRESSURE | T102-X RTD TEMPERATURE | T103-1 COMBUSTIBLE GAS DETECTION |
|---|---|---|---|
| **Remote: Bi-directional communication** | Yes | Yes | Yes |
| **Remote: Job data file download** | Yes | Yes | Yes |
| **Enclosure material: Low copper aluminum alloy** | Yes | Yes | Yes |
| **Connection type** | ½" MNPT, Autoclave (>10K PSI) | ½" MNPT for thermowell | Mounting hardware for 2" pipe |
| **External Antenna** | Yes (Bluetooth, cellular, Wi-Fi) | Yes (Bluetooth, cellular, Wi-Fi) | Yes (Bluetooth, cellular, Wi-Fi) |
| **LCD display with backlight** | Yes | Yes | Yes |
| **Enclosure cover: with glass to view LCD display** | Yes | Yes | Yes |
| **Enclosure cover: solid metal (additional)** | Yes | Yes | Yes |
| **Memory capacity: 16 million data sets** | Yes | Yes | Yes |
| **IDS Bluetooth dongle (Windows) for free** | Yes | Yes | Yes |
| **Multi-gauge feature** | Yes, via one of the following methods:<br>• Cellular (4G/2G): Each gauge communicates using its own (user-installed) SIM card.<br>• Wi-Fi: Each gauge connects to server through a Wi-Fi router.<br>• ***tetrarouter***: Each gauge connects to server through a solar powered ***tetrarouter*** (Non-Hazardous) via Bluetooth. | | |

| Feature | T101-X STATIC PRESSURE | T102-X RTD TEMPERATURE | T103-1 COMBUSTIBLE GAS DETECTION |
|---|---|---|---|
| **Communication: USB** | Yes (serial) | Yes (serial) | Yes (serial) |
| **Communication: Bluetooth** | Yes (up to 75m range) | Yes (up to 75m range) | Yes (up to 75m range) |
| **Communication: Cellular** | Yes (2G/4G) | Yes (2G/4G) | Yes (2G/4G) |
| **Communication: Wi-Fi** | Yes (up to 75m range) | Yes (up to 75m range) | Yes (up to 75m range) |
| **Measurement: Pressure** | Yes (0.1/0.5/1/3/5/10/20/30K PSI) | No | No |
| **Measurement: Temperature** | No | Yes, within process flow stream via thermowell (-50 to 120°C) | No |
| **Measurement: Combustible Gas** | No | No | Yes (%LEL Methane) |
| **Measurement: Accuracy** | +/-0.25% | Class B per IEC 60751 | +/-1% |
| **Calibration: Location** | Anywhere | Anywhere | Anywhere |
| **Sampling rate** | 10/sec to 1/24hrs | 10/sec to 1/24hrs | 10/sec to 1/24hrs |
| **Battery life (typical)** | 2.5 years | 3 years | 6 months |
| **Software** | • Android/Windows/Mac: ***tetraware*** (Bluetooth/USB)<br>• Remote: ***tetraware web*** (Cellular) | | |
| **Security: USB** | Yes (8-character) | Yes (8-character) | Yes (8-character) |
| **Security: Bluetooth** | Yes (8-character) | Yes (8-character) | Yes (8-character) |

| | | | |
|---|---|---|---|
| **Security: Cellular** | Yes (HTTPS) | Yes (HTTPS) | Yes (HTTPS) |
| **Security: Wi-Fi** | Yes (WPA2) | Yes (WPA2) | Yes (WPA2) |
| **User-Serviceable** | Yes | Yes | Yes |

## 4 *tetrarouter*: Secure Wi-Fi / Cellular Gateway

Enables bi-directional wireless communication for remote single or multi-gauge ***tetrarouter*** PSG installations.

Should User have access to their own local Wi-Fi network, their ***tetrascan*** PSG's can be set to communicate with their server via secure, Wi-Fi connection.

In Wi-Fi mode, ***tetrascan*** PSG's are ATEX Zone I-rated, and will typically operate for up to 2 years.

Where user does not have access to a local Wi-Fi network, ***tetrascan's*** built-in, secure Bluetooth connection can be utilized to enable bi-directional communication with an accompanying IDS ***tetrarouter*** installation for connection to a cellular network.

In Bluetooth mode, ***tetrascan*** PSG's are ATEX Zone I-rated; while non-certified solar panel accompanying ***tetrarouter*** can be located in adjacent non-hazardous zone.

Bluetooth mode maximizes ***tetrarouter's*** low-power consumption feature; providing typical battery life of up to 4 years.

# 5 *tetraware*: Support Software

IDS offers users multiple ways for communicating with their gauges. IDS' entire suite of ***tetraware*** and ***tetraware-web*** Software Applications have been designed for similar appearance and functionality.

## *5.1 tetraware*

Cross platform application designed for desktops, cell-phones or tablets; connects to gauge via Bluetooth or USB. Provides programming and downloading functions, along with quick-look graphics and job data file transfer capability.

## *5.2 tetraware-web*

Optional secure online portal provides users with remote real-time data access to their IDS ***tetrascan*** gauges. Cloud connection-based; designed for bi-directional communications capability to obtain real-time ***tetrascan*** data including remaining battery life and memory status; as well as to remotely modify its programming parameters.

| Features | *tetraware* | *tetraware web* |
|---|---|---|
| Operating System | Windows (≥10)/Mac/Android | Any |
| Browser Required | Google Chrome | Any |
| Server Connection Required | No (only for updates) | Yes |
| Communication | USB/Bluetooth | Cellular/Wi-Fi |
| Gauge Status | Yes | Yes |
| Gauge Programming | Yes | Yes |
| Data Retrieval (On Demand) | Yes | No (Automatic) |
| Live Data | Yes (USB/Bluetooth) | Yes (Cellular/Wi-Fi) |
| Export ASCII (Text) | Yes | Yes |
| Data Graphing | Yes | Yes |
| PDF Quick Report | Yes | No |

# 6 Advanced Power Management System

| Sample Rate (sec) | Online Rate (hrs) | Battery Life (T101 / T102) | | Battery Life (T103) | |
|---|---|---|---|---|---|
| | | Cell/WiFi | ***tetrarouter*** | Cell / Wi-Fi | ***tetrarouter*** |
| 0.1 | N/A | 3mo, 3d | | N/A | |
| 1 | 10min | 27d | 3mo, 5d | 10d | 14d |
| 3 | ≤ 30min | 2mo, 19d | 9mo | 30d | 1mo, 11d |
| 5 | ≤ 1 | 5mo, 1d | 1yr, 3mo | 1mo, 23d | 2mo, 9d |
| 10 | ≤ 2 | 9mo, 10d | 2yr, 3mo | 3mo, 15d | 4mo, 17d |
| 20 | ≤ 4 | 1yr, 5mo | 3yr, 8mo | 6mo, 23d | 8mo, 23d |
| 30 | ≤ 6 | 2yr | 4yr, 8mo | 9mo, 27d | 1yr |
| 1min | ≤ 12 | 3yr, 5mo | 6yr, 4mo | 1yr, 6mo | 1yr, 10mo |
| 2min | ≤ 24 | 5yr, 1mo | 7yr, 8mo | 2yr, 7mo | 3yr, 2mo |

- ***Sample Rate***: Rate at which a sample is taken and stored in ***tetrascan*** PSG memory.
- ***Online Rate***: Rate at which a set of samples are sent online to ***tetraware-web***.

# 7 *tetrascan* System Applications:

***tetrascan*** series PSG systems are designed to provide easy-to-install, economic solutions for a wide variety of oil and gas industry process and HSE-related monitoring applications.

***tetrascan***'s array of wireless connectivity options offer users a number of choices for secure, bi-directional communications and data transfer for remote mechanical integrity surveillance.

- ✓ **PRODUCTION WELLHEAD TUBING & CASING OPERATING CONDITIONS** for pressure, temperature & ambient combustible gas
- ✓ **ALL *tetrascan* SERIES MODELS** provide extended Bluetooth communications range to minimize need for operations personnel entry into hazardous areas to obtain onsite PSG readings
- ✓ **SURFACE PRODUTION INSTALLATIONS** including pipelines, field pumping and compressor stations, satellite and central handing & processing facilities, gas plants, refineries, and pressurized equipment hydrostatic test monitoring
- ✓ **DATA MONITORING, BACKUP MEMORY STORAGE & REAL-TIME TRANSFER** operator-set over/under alarm notification capability in all models
- ✓ **HSE – RELATED WIRELESS MONITORING/ALARM NOTIFICATION** uses include leak detection, minimizing produced fluid spills and associated environmental damage/property loss
- ✓ **ALL *tetrascan* SERIES MODELS** maintain wireless communications with the ***tetraware-web*** server for transferring real-time operating data, alarm notification status, and to receive data acquisition & transfer programming changes

# 8 Multi-Gauge Systems:

IDS' **tetrascan** wireless PSG monitoring system provides users with a low-cost, easy to install and operate solution for well and remote facility integrity surveillance.

- ✓ Integrates real-time secure data transmission and alarm notification features, along with secure online data reporting and management capabilities to provide a reliable and cost-effective approach to remote location monitoring.
- ✓ Enables operators to configure multi-gauge clusters of up to 5 surveillance points at each location.
- ✓ Secure bi-directional communications capability means remote device programming changes can be easily made via secure online GSM link.
- ✓ **tetraware-web** provides secure online portal for an unlimited number of multi-gauge equipped locations to be effectively monitored in real-time, at user-defined data sampling intervals, and GSM transmission / alarm notification rates.
- ✓ **tetraware-web's** easy-to-use data management features allow for an unlimited number of user-defined recipients to view incoming real-time data for an unlimited number of locations, manipulate data presentations, and to receive notification of any alarm-level conditions.

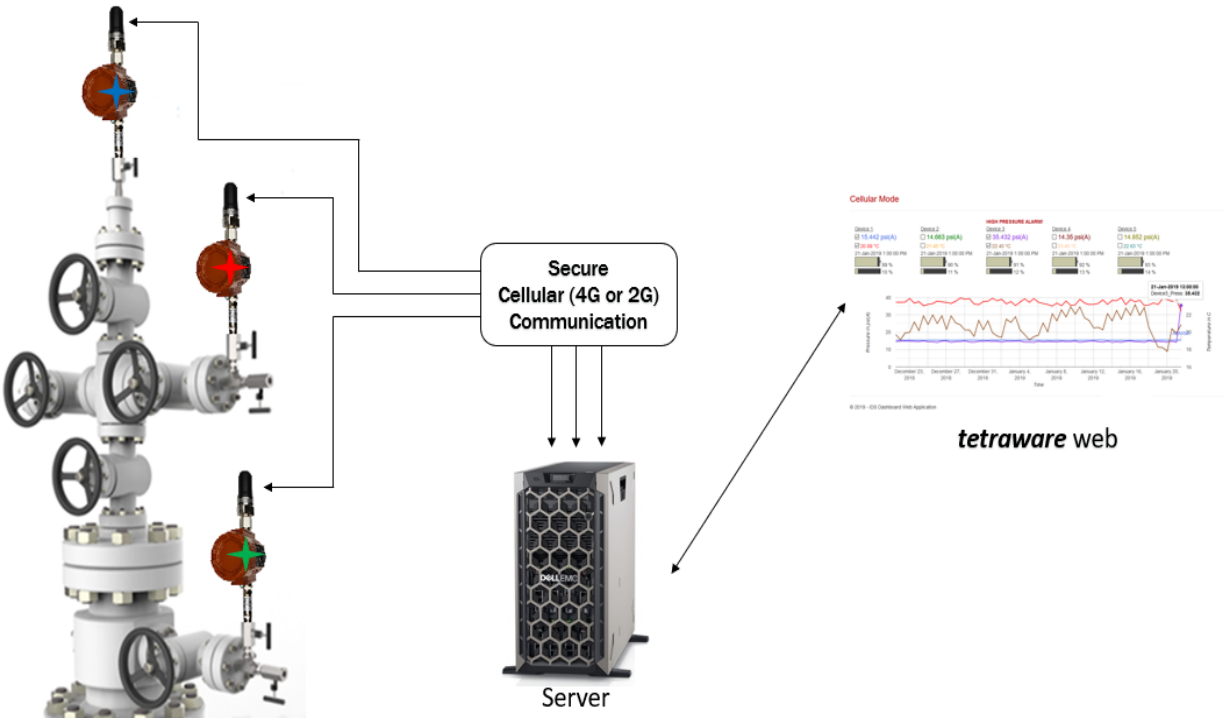
## 8.1 Remote Real Time Data Transmission Options

### *tetrascan PSG* – Remote real time data transmission

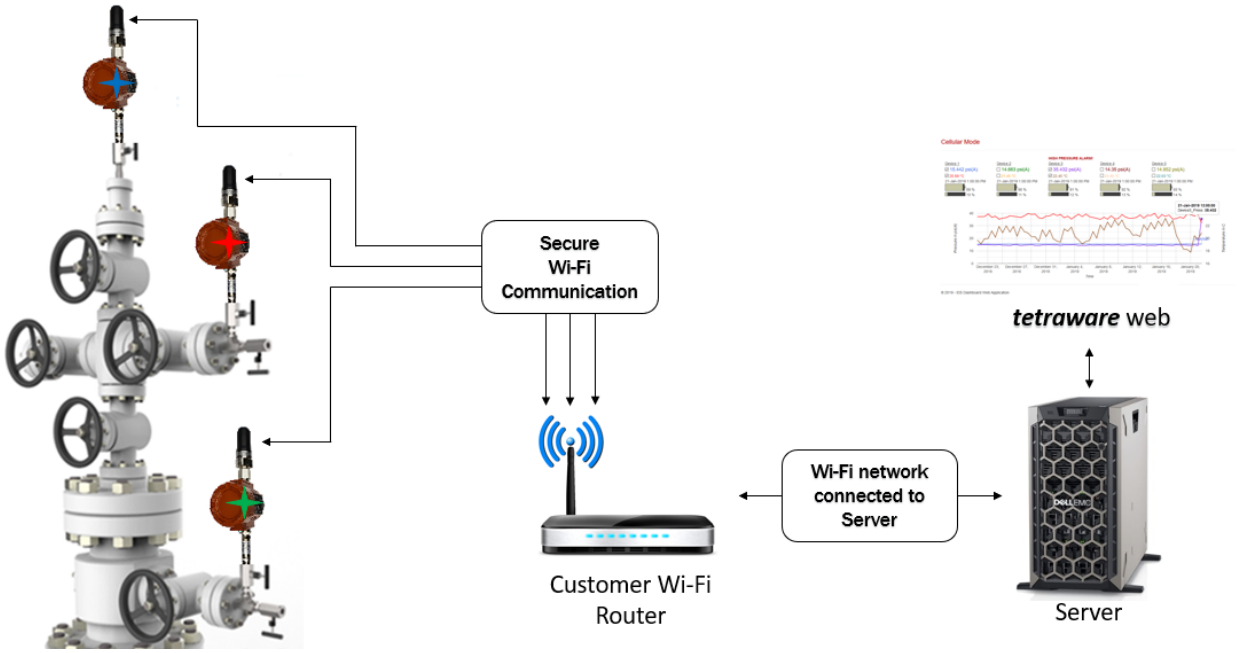
Multiple ***tetrascan*** PSGs' can send **all** the data to ***tetraware-web*** via any of the following methods:

- Cellular (4G / 2G) using SIM card
- Wi-Fi using Wi-Fi router
- Bluetooth:
  - Via ***tetrarouter (2G/3G)*** using SIM card
  - Via ***tetrarouter (Wi-Fi)*** using Wi-Fi router

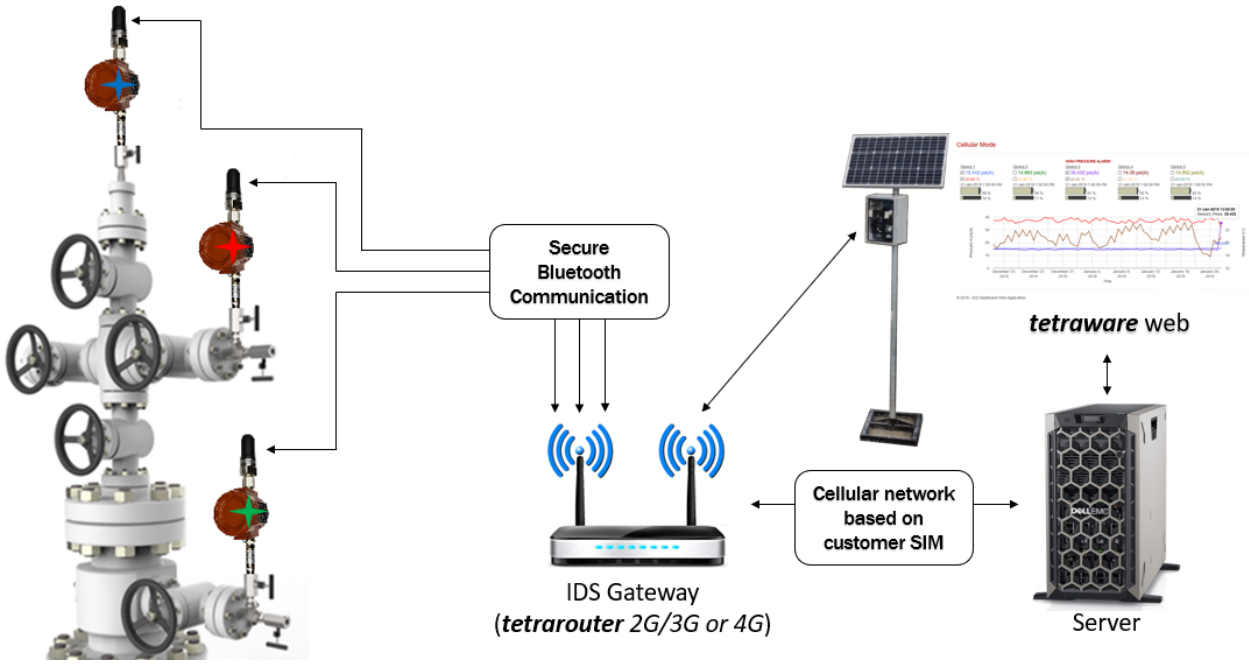
### 8.1.1 *tetrascan* Cellular Mode *(All gauges are individually connected to the cellular network)*



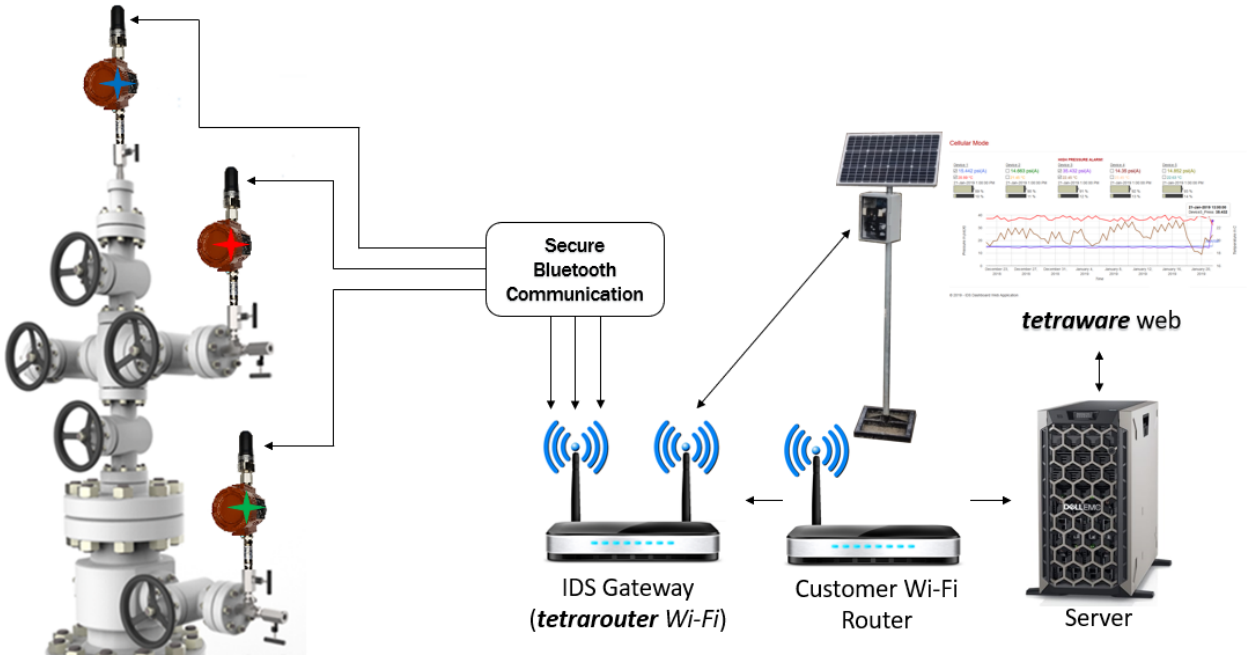
### 8.1.2 *tetrascan* Wi-Fi Mode *(All gauges are individually connected to the Wi-Fi network)*




### 8.1.3 *tetrascan* Bluetooth/Cellular Low Power Mode *(All gauges are individually connected to the tetrarouter)*



### 8.1.4 *tetrascan* Wi-Fi Low Power Mode with *tetrarouter* and User Wi-Fi Router *(All gauges are individually connected to the tetrarouter)*



## 9 Rugged Weatherproof Gauge Carrying Case:

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# Rugged Weatherproof Gauge Carrying Case

Constructed from high impact S433 ABS resin, IDS' rugged carrying cases provide durable weatherproof containment. Ideal for secure storage and transport. Available in single and three gauge containment sizes for both PSG1/PSG2 and Tetrascan gauge models.

| **PSG1/PSG2 Series** | **Part No** | **Internal Dimensions** |
|---|---|---|
| **-Single Gauge Case;** | **10006282** | **12" x 9" x 6"** |
| **-Three Gauge Case;** | **30001492** | **21.85" x 18.1" x 9.5"** |

| **Tetrascan Series** | **Part No** | **Internal Dimensions** |
|---|---|---|
| **-Single Gauge Case;** | **30001490** | **17.68" x 12.5" x 7"** |
| **-Three Gauge Case;** | **30001489** | **21.85" x 18.1" x 9.5"** |

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