Connected Fire Container Monitoring
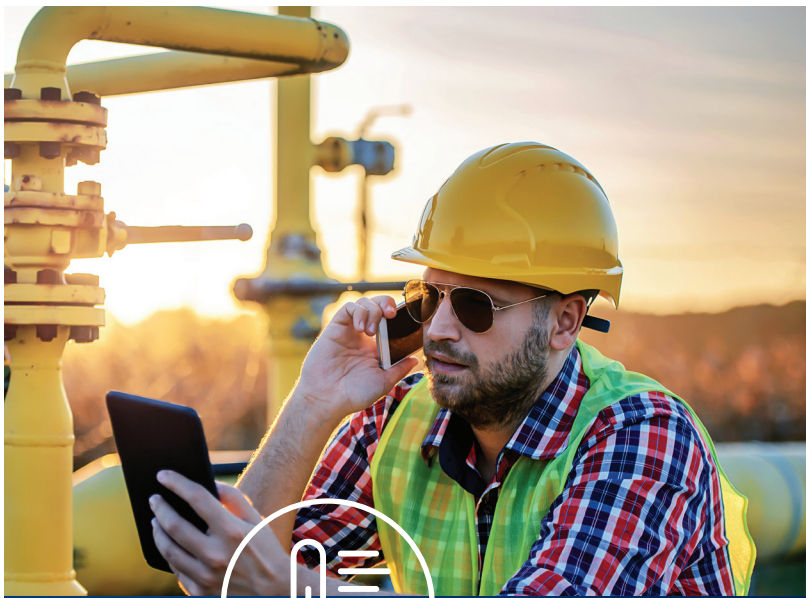
The power behind **your mission**

Johnson
Controls

Connected Fire Container Monitoring

At Johnson Controls, we recognize that we live and work in an increasingly digital world. That's why we've been busy innovating. In this case, finding new ways to improve system uptime and reliability of our gaseous fire suppression systems.

Remote monitoring

Connected Fire Container Monitoring measures the pressure and temperature of our Halocarbon and Inert gas system containers, sending data wirelessly to the cloud. Data is analyzed and the pressure is normalized based on the temperature – giving information to allow users to take action to ensure system health.

Connected Fire Container Monitoring is fully addressable. It will give specific data for each container in the system, rather than simply providing a low pressure alarm. This helps limit low pressure false alarms which may be due to changes in temperature as opposed to an actual loss in pressure. Conventional supervisory pressure switches often simply use a common fault indication on the system control panel.

By connecting pressure and temperature, low pressure conditions that could be due simply to low temperature are normalized, avoiding fault conditions being recorded and the need for unnecessary intervention.

Temperature compensated pressure readings – eliminating low pressure alarms, caused simply by a reduction in temperature

Microleak detection allows notification before system integrity is compromised and allows for scheduled intervention, minimizing cost of repair and system down time

"The connectivity remote monitoring device is a helpful technology, giving steady and reliable monitoring of data. We expect this will result in a significant enhancement in the systems overall performance/reduction of man-hours, while achieving the optimum response time and corrective action that may be needed. Thanks to the significant real-time reporting, the corrective actions can be taken immediately, which is great for those facilities and systems not easily accessible.

Ahmed Hefnawy
Service and Installation Manager
HAVEN SAFETY, UAE

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101001
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Information and addressability for individual containers to simplify intervention planning

The accuracy is ⁺/₋ 0.5% at all pressures to ensure system integrity

"The ability to remotely access pressure/temperature and have the history of pressure readings is very valuable."

Karl Peek
General Manager
LPG FIRE AUSTRALIA

How it works

The Connected Fire Container Monitoring device collects data from each container at set time intervals chosen during configuration. It can connect to a mobile device such as a smart phone or tablet, sharing information in real time on an online dashboard.

It can be accessed anywhere in the world at any time of the day or night, allowing for speedy intervention in the case of a low pressure container (that is not temperature related) before it compromises the fire suppression system. It is powered by a battery that has constant health monitoring displayed on the dashboard.

Backward compatible for field retrofits on most existing systems

◀ Electronic Gauge   Communication Gateway

"Thanks to the Connected Fire Container Monitoring system from Johnson Controls, we are successfully monitoring and reporting the status of each container on the iFLOW fire suppression systems through a secure cloud network. This allows on-demand virtual visibility of the health status of the fire suppression system and can be viewed via a web browser or the dedicated mobile app.
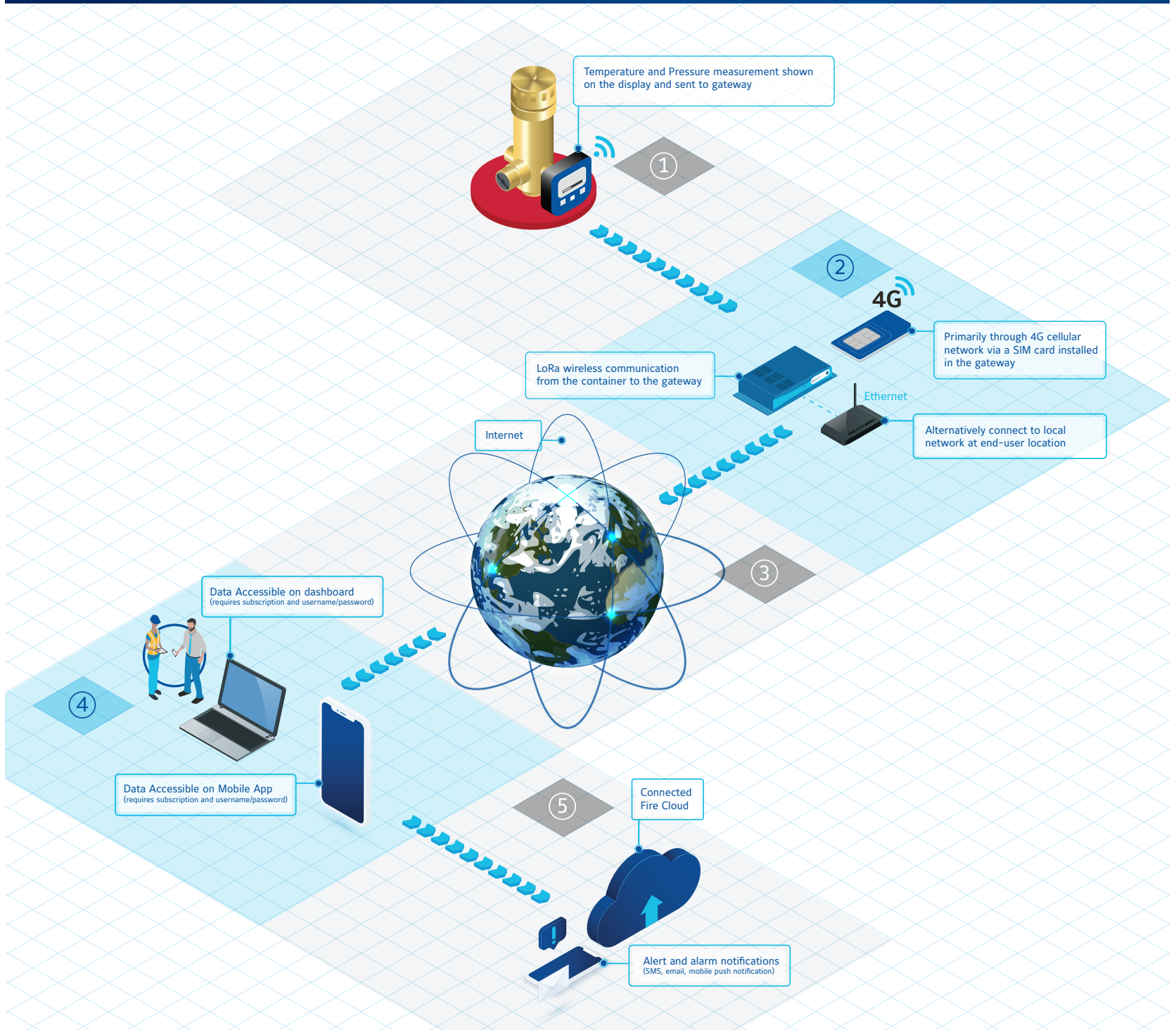
We have the confidence that should any changes in the system pressure occur, we are automatically notified at a very early stage before the system develops an alarm fault. This allows us to perform a preventative action to resolve any minor issues before they become a possible impairment to the system, such as a low pressure container. With the challenges we are all facing from working remotely, the value of this type of system cannot be underestimated to ensure the system remains fully operational."

Chris Wright
Managing Director
TRADE FIRE SUPPRESSION

Features:

- Remote monitoring of container pressure and temperature

- Container data viewable by service contractor and end-user anywhere with access to internet or cellular network

- Digital read-out on containers for actual and compensated pressure

- Microleak detection capability

- Available for Halocarbon and Inert Containers

- Encrypted Wireless communication with deep in-building penetration

- Dashboard and Mobile application with actual and compensated pressure graphs

- iOs compatible Mobile application

- Push notification for alerts and alarms

- QR code scanning for commissioned container data via the dashboard and mobile app

- Dashboard storage of installation photos

Connected Fire Container Monitoring in action

Temperature and Pressure measurement shown on the display and sent to gateway

①

②

4G

Primarily through 4G cellular network via a SIM card installed in the gateway

LoRa wireless communication from the container to the gateway

Ethernet

Alternatively connect to local network at end-user location

Internet

③

Data Accessible on dashboard
(requires subscription and username/password)

④

Data Accessible on Mobile App
(requires subscription and username/password)

⑤

Connected Fire Cloud

Alert and alarm notifications
(SMS, email, mobile push notification)

About Johnson Controls

At Johnson Controls, we transform the environments where people live, work, learn and play. From optimizing building performance to improving safety and enhancing comfort, we drive the outcomes that matter most. We deliver our promise in industries such as healthcare, education, data centers and manufacturing. With a global team of 105,000 experts in more than 150 countries and over 130 years of innovation, we are the power behind our customers' mission. Our leading portfolio of building technology and solutions includes some of the most trusted names in the industry, such as Tyco®, YORK®, Metasys®, Ruskin®, Titus®, Frick®, Penn®, Sabroe®, Simplex®, ANSUL® and Grinnell®.

For more information, contact your regional Fire Suppression product representative, or visit www.ansul.com

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