

## PTSG and Change Grow Live





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**PTSG (via constituent company Total Environmental Compliance) began working with Change Grow Live (CGL) in 2022.**

CGL is a charity that exists for people who need help with challenges including drugs and alcohol, trouble with housing, domestic abuse and mental and physical wellbeing. Its services are free and confidential. It has grown from a tiny volunteer-led Sussex-based organisation to a nationwide charity that helps tens of thousands of people each day.

The challenge for PTSG is that the charity has multiple small sites spread nationwide, each requiring weekly/fortnightly/monthly flushing and samples. Managing Legionella services and water hygiene services is costly based on:

- **water costs – having to run outlets until they reach temperature, wasting water;**
- **energy costs – having to use gas to heat the water;**
- **engineer visits – L8 testing, travel time and fuel costs; and**
- **all activities resulting in a heavy carbon footprint.**

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Working collaboratively, PTSG and CGL quickly arrived at a solution to overcome this challenge: remote temperature monitoring. This system combines hardware and software to perform automatic temperature auditing and data logging remotely.

## How does remote temperature monitoring work?

1. Discreet sensors (with a 7-10-year battery life) are installed on the pipework.
2. Every 5 seconds, the sensors send data to a cloud connector in the building.
3. That cloud connector then sends data via secure cellular networks.
4. All the temperature monitoring data can be accessed and viewed on a mobile or computer, giving the client very powerful insights.
5. Any alerts or one-click reports are delivered to PTSG's team via SMS or email alerts.





## The importance of Legionella testing

Because of the risks of Legionella it's essential to carry out regular Legionella testing – water testing is the only way to determine whether Legionella is present in a water system.

Outbreaks of Legionnaires' disease receive significant media attention especially when a large number of people become ill or die. In contrast to highly publicised outbreaks, single cases often go unnoticed or reported. However, Legionnaires' disease is a legitimate public health concern as it can be fatal.

Regular testing for Legionella can help prevent potential and sometimes fatal outbreaks of Legionnaires' disease.

PTSG is a member of the Legionella Control Association (LCA). Its Quality Management System for all work activities is upgraded to the ISO 9001/ISO 14001/ISO 45001 standards.

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## The benefits of Remote temperature monitoring

PTSG's sustainable remote temperature monitoring technology can be attached to CGL's assets, allowing PTSG to take the temperatures of the assets at any time. The sensors have many benefits, chiefly enabling PTSG's engineers to take temperatures more often, giving them a far more accurate take on how each asset is performing and enabling them to make effective recommendations based upon these results.

Remote temperature monitoring puts PTSG in the beneficial position of no longer needing to send an engineer to site, saving time and money. This in turn helps to remove access issues because, with site visits no longer needed, PTSG will never interrupt CGL's operations to complete necessary works.

A further key benefit is that by using remote sensors for continual temperature monitoring 24/7, PTSG's engineers don't have to run the clients' taps for a certain amount of time to get the water up to temperature, as would be the case if they visited each site. This saves a substantial amount of water and energy costs, which is a huge benefit for the client.

### In summary, remote monitoring is helping PTSG to:

- **Save time**
- **Save money**
- **Save carbon consumption**
- **Improve compliance**

