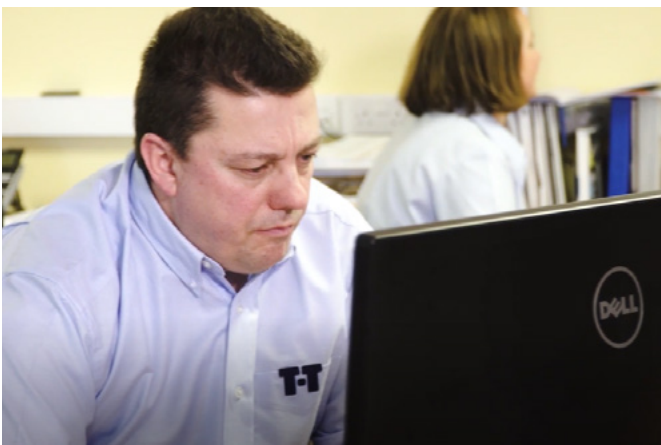


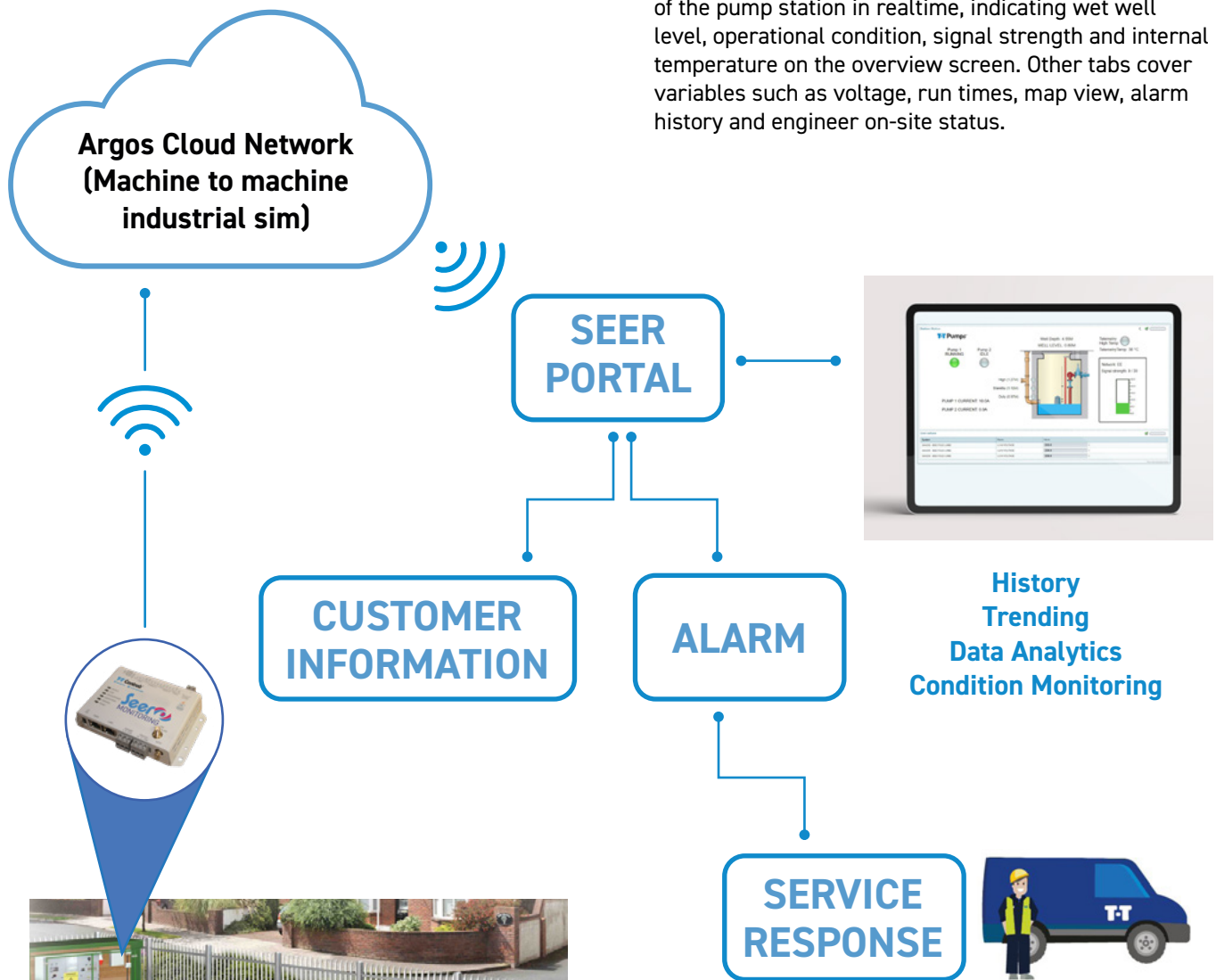
Proactive Care with Seer Monitoring



Seer Monitoring Offers Peace of Mind

Why Choose Seer?

The Seer monitoring range is an advanced data logger that uses cloud-based technology to continually communicate operational status to an internet-based portal. With a data refresh every 10 seconds, it gives a pictorial overview of the pump station in realtime, indicating wet well level, operational condition, signal strength and internal temperature on the overview screen. Other tabs cover variables such as voltage, run times, map view, alarm history and engineer on-site status.



How Seer Works

- The Seer unit sends information to the Argos Cloud Network.
- Data is collected and distributed and the T-T Service Team are alerted to any alarms.
- If necessary, the T-T engineers are deployed to site.
- The customer can view the status and activity of the station via the Seer portal.
- The Seer monitoring team can access the historical reports to ensure the station is working as intended. They can decipher if there are external factors affecting the pumping station and suggest changes to ensure it is in healthy working order.

Benefits of Seer Monitoring

- Reduced maintenance costs** due to less unnecessary site visits.
- Pro-active maintenance** reducing environmental impact.
- Real-time monitoring** by our skilled pump engineers.
- Early intervention** to prevent detrimental failures with remote reset and continual monitoring.
- Data at request** detailing the full history which can then be used in the preadoption handover.
- Reduce Environmental Risk** by detecting risks early on we can help prevent any damage to the environment.
- Remote Reset** functionality with onsite engineer safety feature when used with a compatible control system.

Analogue Data

- Pumps(s) running current
- Wet well level (mA signal required)
- Pump total run time
- Unit integral temperature
- Network provider/GSM signal strength
- Station location co-ordinates

Seer Micro



Seer Junior



Seer Advanced



Digital Data Signals

- Common pump(s) tripped
- High level float active
- Remote reset

Digital Data Signals

- Pump(s) overload tripped
- Pump(s) overheat tripped
- Pump(s) under-load tripped
- Pump(s) seal leak tripped
- High level back up flat active
- Remote reset

Digital Data Signals

- Pump(s) overload tripped
- Pump(s) overheat tripped
- Pump(s) under-load tripped
- Pump(s) seal leak tripped
- High-level back up float active
- High-high level float active
- Engineer on site
- Remote reset



Built-in Features

- Real-time reporting, offering the ability to remotely diagnose faults.
- Visually represented data and alarm screens.
- Historical data held for plant comparison and analysis.
- Fully configure alerts via email.
- Download data scheduling options.
- Secure hosting of cloud-based technology.
- User profiles and notifications fully customisable.

WATCH THE VIDEO ON OUR YOUTUBE CHANNEL

SCAN TO WATCH



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Case Study



A PROBLEMATIC PUMPING STATION RESOLVED BY SEER MONITORING

“The development of this product has allowed us to assist not only major house builders in providing evidence of efficient working of the pumping station to aid adoption but has also diagnosed many issues within hours of being installed on sites.”
Commented Jane Delicata manager of T-T Controls and Automation.

As part of the trialing and testing of the new Seer monitoring range, we installed a Seer Advanced unit at a David Wilson Homes site based in Crewe, Cheshire.

The 72-property development required an Adoptable Pumping Station due to no gravity sewer network being available. The Adoptable Sewage Pumping Station provided was compliant with Sewers for Adoption 6th Edition (the applicable specification at the time of construction) to United Utilities addendum.

The Seer unit provided managed to alert and diagnose an issue on site within 48 hours of installation.

The Pumping Station consisted of: 3.0m diameter by 5.3 deep concrete wet well, separate concrete constructed valve chamber, ductile iron pipe work, valves and fittings to full specification compliance along with a T-T Controls and Automation manufactured main control panel plus two 4kW vortex impeller ATEX approved sewage pumps. Installed into the control panel was a Text-Tel Junior SMS text message only monitoring unit, we added the Seer Advanced cloud based unit to enable us to cross correlate any alarms being received.

Detection of the problem

Within 48 hours of the Seer unit being installed the monitoring system detected a stuck non-return valve on one of the pump discharge legs. This could have continued to be undetected for a considerable time, causing unnecessary wear on the continually running pump and an imbalance in the hours run on the station.

Fixing the problem

Thanks to the combination of the monitoring equipment with a T-T service and monitoring agreement, we had 24/7 visible data of the Pumping Station in real-time. The T-T Monitoring team were able to pick up the issue straight away and alert an engineer to the problem.

The Seer monitoring range has reduced and will continue to reduce the need for breakdown calls due to us having the ability to remotely diagnose and reset any issues on site. The Seer acts as a data logger, providing downloadable reports of all data, parameters and alarms. The document pack can be supplied to the water authority as evidence of optimal working conditions to aid with the adoption process.

**T-T Controls[®]
& Automation**

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The Seer monitoring range can be an invaluable asset to your Pumping Station.

- 24/7 peace of mind
- Our monitoring team on hand 24 hours a day for your support
- Diagnosis and severity status of the problem from our headquarters
- Reduced breakdown calls
- Downloadable reports available