



Congrego[®] Data Logger

Total data control & logging for air quality
& continuous emission systems

Congrego® Created by the Monitoring Industry... For the Monitoring Industry

A next generation total data control and logging hardware/software solution for air quality and continuous emission systems.

Engineered from the ground up to achieve accurate, reliable, real-time data logging specifically for ambient air and continuous emission monitoring systems, Congrego® is the culmination of 40+ years' of commercial experience and operational insight by ECOTECH.

Seamlessly supporting numerous types of sensors and environmental instruments simultaneously, Congrego® was created with environmental professionals in mind. It will transform the way you access real-time and historical data from your environmental monitoring equipment.

When running a variety of environmental monitoring instruments concurrently, ECOTECH understands being able to get accurate and reliable data is essential to meeting designated standards, complying with regulations, and ensuring the safety and wellbeing of your workforce and the community in which you operate.

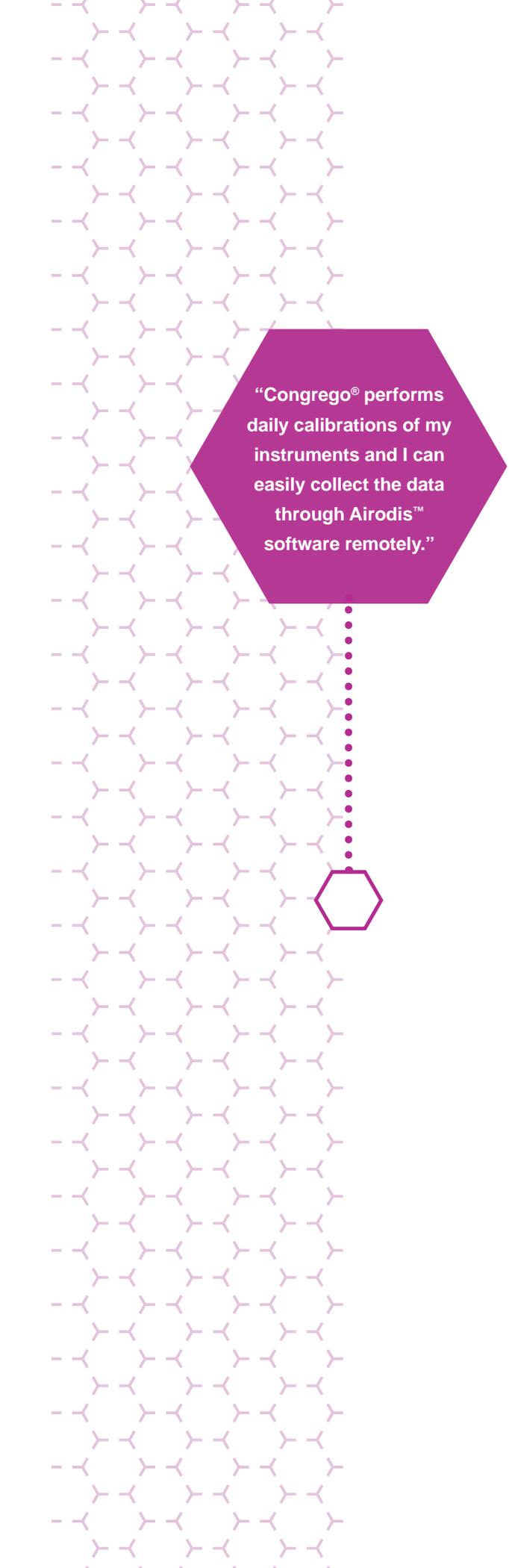
Congrego® is the next generation in data capture and logging for air quality and continuous emission systems.

More than just a data logger, Congrego® is a total control and logging solution for all your monitoring requirements – making the transition from data recording to report generation simple and seamless.



“Congrego® is the central node that runs everything at your site and is the only interface you need to manage all sensors and instruments at once.”





“Congrego® performs daily calibrations of my instruments and I can easily collect the data through Airodis™ software remotely.”

Why Congrego® ?

- Designed specifically for air quality & continuous emissions systems by environmental monitoring experts
- Simple set-up & easy to install
- Intuitive & customisable user interface
- Compatible with a wide range of analogue & digital monitoring instruments from different equipment manufacturers
- Fulfils the “traceability of records” requirement of ISO 17025
- Remote control of monitoring instruments
- Automated alarms & alerts on user interface
- Works with & without a live internet connection
- Solid-state drive (SSD) reduces the risk of data loss from mechanical knocks
- Secure platform with enhanced security features
- Seamless integration & configuration with Airodis™ data collection, validation & reporting software
- Used & endorsed by ECOTECH in ECOTECH and non-ECOTECH designed & manufactured AQMS stations around the world.

FUNCTIONALITY

- Aggregated reports provide values for multiple periods - from 1 second to daily
- Logs multiple functions from any channel
- Hardware watchdog timer (WDT) automatically cycles power when required
- Works online or offline
- Multi-language capability: English, Afrikaans, Chinese (simplified), French, German, Greek, Russian & Spanish.

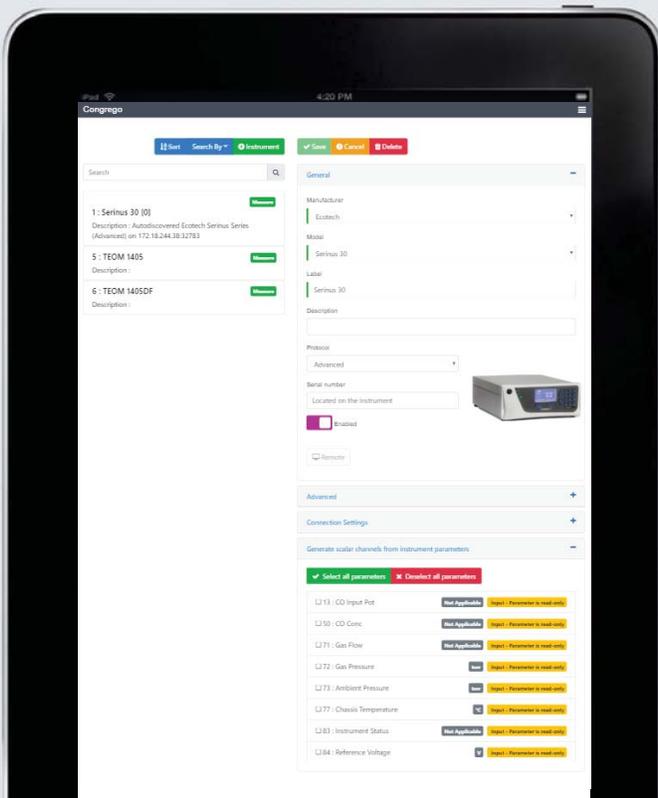
HARDWARE SPECIFICATIONS

- 6 x RS232 ports
- RJ45 network port
- Inbuilt WiFi
- 6 x USB ports, including 1 for software protection key
- HDMI display port
- 12 / 240 VDC power supply
- 16 x analogue inputs
- 8 x digital outputs, 8 x digital inputs (via optional Terminal Panel Interface Module (TPIM))
- Solid State Hard Drive
- MS Windows.

CALIBRATIONS

- Schedule daily Span & Zero checks with ease
- Record average of last few minutes for Span and Zero reporting
- Log dilution concentration with Span for drift checking
- Schedule & record multipoint checks (e.g. weekly)
- Changes instrument states to facilitate calibration check with support for:
 - Serinus[®] inlet selection – measure / calibration
 - Serinus[®] Calibrator – select calibration points 1-32
 - TPIM / Modbus digital outputs to other instruments / calibrators.

“It’s a flexible platform with extendable protocols that allows me to integrate all my devices.”



Complex technology in a simple framework

Using default settings straight out of the box, Congrego® can be installed, configured and operational in a matter of minutes.

Many data loggers are difficult to install and configure, requiring a high level of training, excessive time and ongoing maintenance.

ECOTECH knows how important it is to be able to minimise these factors, so we designed Congrego® to be easy.

Congrego® is a ready-to-use, simple to operate software and hardware platform that interfaces with a wide variety of equipment digitally.

Congrego® controls how instruments inter-relate, reliably taking complex amounts of data and transforming it into easily accessible, digestible and accurate data that informs decision making and effective systems operation.

It can be operated and controlled remotely from any internet browser-enabled device – laptop, tablet or mobile phone.

An intuitive user-interface design means you can confidently master the basics of Congrego® in less time and with less effort.



MORE RELIABILITY & SCALABILITY

Congrego® is a complete control and logging solution, whether you are logging data from a single gas analyser or complex monitoring system.

From a simple weather station with a few inputs to a complete ambient air quality monitoring system with numerous gas analysers, a calibrator, meteorological equipment and particulate samplers, Congrego® is designed to work with and support a wide range of sensors, analysers and instruments.

Congrego® works with equipment manufactured by:

- ECOTECH
- o1dB
- Los Gatos Research
- Met One Instruments
- Opsi
- Palas
- Teledyne API
- Thermo Fisher Scientific
- Tunnel Sensors / Dynoptic
- Vaisala
- and more...

USER-CENTRIC DESIGN

Automation of processes like calibration checks and alarms in Congrego® reduces the requirement for unnecessary on-site access by personnel.

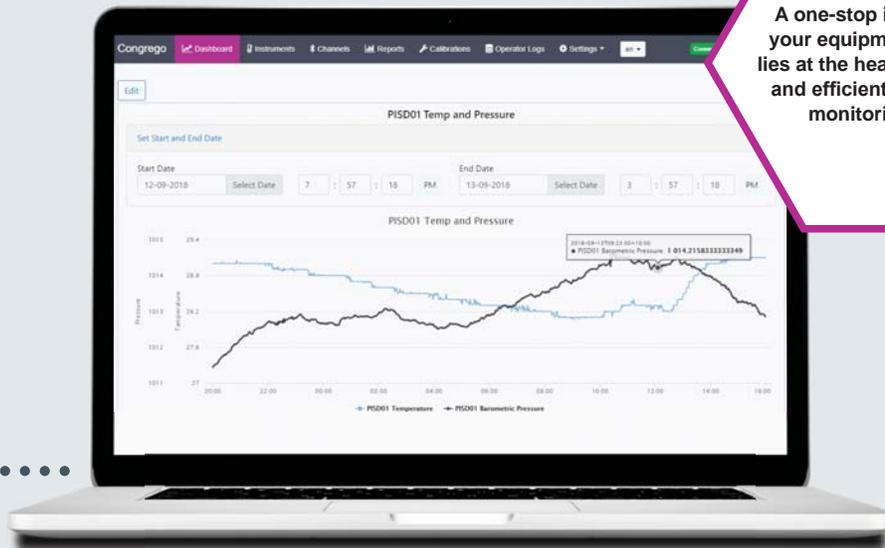
This user-centric design feature is particularly beneficial when monitoring stations are positioned in hard to reach or remote locations and station management is performed remotely.

Not having to physically visit monitoring sites saves time, effort and resources, making the entire monitoring system more convenient and efficient.

Congrego® can be accessed and updated by multiple authorised users concurrently. An easy to customise dashboard gives Congrego® users choice and control of how to view their real-time and historical data.

Hundreds of parameters of data can be presented simultaneously in a variety of widgets, graphs and tables, depending on user preference.

Operating on industry-standard Windows platform, Congrego® is an indispensable tool for industry, government authorities and research facilities serious about data capture, accuracy, reliability and management.



A one-stop interface for all your equipment, Congrego® lies at the heart of an accurate and efficient environmental monitoring system.