

Trescal *Product Portfolio*

- > *Wired & Wireless monitoring systems*
 - > *Temperature calibrators*
- > *Measuring equipments & Analyzers*

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| LIFE SCIENCES |

Wired monitoring systems

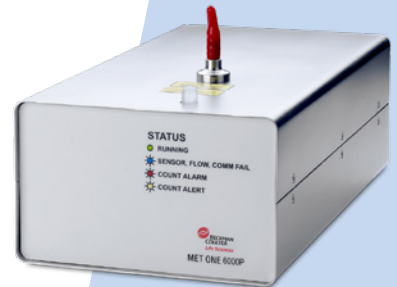
Pharmagraph enVigil FMS / PnP

- Optimized for use on virtual machines
- Configurable, flexible, and compliant monitoring system
- Particle counting, environmental, and microbiological sampling
- Secure operation with Windows user names and passwords
- Compliant with EU GMP Annex 1 and 21 CFR part 11
- Automatic audit logging
- Trends, alarm reports, and tabular data reports
- Batch reports with electronic signatures
- Data export XML Microsoft Excel
- Connectivity with third-party applications and platforms
- External network clients



Met One 6000 (P) / 7000 series

- High performance
- Easy to integrate with any FMS system
- Long Life Laser™ diode
- Faster troubleshooting and fewer downtimes
- Easy-to-install installation options and DIP switches
- Built-in flow sensor
- With built-in pump (P series only)



iVAS Roam Air Sampler

- iVAS Roam offers innovative features in the field of portable air sampling.
- The tour function, combined with RFID technology, reduces the risk of user error and thus ensures a complete monitoring program.
- Improved data integrity and the ability to integrate with enVigil can help with broader EMS requirements.



Wireless monitoring systems

Dickson OCEAsoft

Monitoring

- Full range of sensors and calibration services
- Advanced wireless connectivity
- Continuous data readout, collection, and transfer
- Visual dashboards and system overview

Traceability

- Verifiable, non-modifiable system log
- Downloadable graphs, sensor data, and device information
- Compliant with GxP and FDA 21 CFR Part 11 guidelines
- Automated reports

Alerts

- Up to 3 high and 3 low alarm levels per measurement point
- Email, SMS/text message, and voice call
- Technical alarms for sensors, data loggers, and gateways
- LoRa alarm siren and LoRa alarm relay device



SenseAnywhere

- Temperature monitoring
- Perfect for temperature-sensitive goods
- Highly accurate measurements (± 0.1 °C)
- Resolution of 0.01 °C
- Battery life 10 years – 1 million measurements
- Humidity range: 1–95% RH, non-condensing
- The AiroSensor 20-20-43 can be easily connected to various modules



Lascar

- USB, WiFi & wireless temperature & RH loggers
- Remote monitoring via EasyLog Cloud / app
- Configurable alarms with offline data backup
- IP-rated, robust design for demanding use



LogTag

- Temp & humidity data loggers (USB, PDF, WiFi)
- WHO-PQS approved for pharma & vaccines
- High accuracy, multi-alarm configuration
- Instant PDF/Excel reports, no extra software



Temperature calibrators

A temperature calibrator is a device used to test and verify the accuracy of temperature sensors such as thermocouples and RTDs (Resistance Temperature Detectors).

It creates a stable, precisely controlled temperature in a dry block or liquid bath so that the reading of the sensor can be compared with the known reference temperature.

This process is essential in industries where accurate temperature measurement is critical, such as pharmaceuticals, food production, chemical processing, and research laboratories.

Ametek Jofra RTC Series – Reference Temperature Calibrator

The RTC Series is designed for high accuracy and a wide temperature range.

- Temperature range down to $-100\text{ }^{\circ}\text{C}$ (RTC-159)
- Accuracy up to $\pm 0.04\text{ }^{\circ}\text{C}$
- Multi-zone active temperature control for optimal homogeneity
- Suitable for large and multiple sensors

Ametek Jofra RTCt Series – Reference Temperature Calibrator with Touchscreen

The latest generation of the RTC series with enhanced usability.

- Large color touchscreen with customizable interface
- USB, Ethernet, and Wi-Fi for local and remote operation
- Dual sensor inputs for simultaneous calibration
- Automatic graph mode with real-time stability display
- Preset temperatures and automated multi-point runs

Ametek Jofra PTC Series – Professional Temperature Calibrator

- Temperature range: $-90\text{ }^{\circ}\text{C}$ to $660\text{ }^{\circ}\text{C}$
- Accuracy up to $\pm 0.06\text{ }^{\circ}\text{C}$
- Fast heat-up ($350\text{ }^{\circ}\text{C}$ in 7 minutes)
- Laboratory-grade accuracy in a portable format



Ametek Jofra CTC Series – Compact Temperature Calibrator

- Temperature range: $-25\text{ }^{\circ}\text{C}$ to $1,205\text{ }^{\circ}\text{C}$
- Accuracy up to $\pm 0.2\text{ }^{\circ}\text{C}$
- Mains Voltage Immunity ensures stable performance during power fluctuations
- Compact and robust, ideal for field use



Ametek Jofra MTC Series – Marine Temperature Calibrator

- Temperature range: $28\text{ }^{\circ}\text{C}$ to $650\text{ }^{\circ}\text{C}$
- Accuracy: $\pm 0.9\text{ }^{\circ}\text{C}$ (1-year) / $\pm 1.8\text{ }^{\circ}\text{C}$ (3-year)
- Designed for shipyards and offshore applications
- Extended calibration intervals help reduce maintenance cost



Ametek Jofra ETC Series – Easy Temperature Calibrator

- Temperature range: $-10\text{ }^{\circ}\text{C}$ to $400\text{ }^{\circ}\text{C}$
- Accuracy up to $\pm 0.5\text{ }^{\circ}\text{C}$
- Heat-up rate: $100\text{ }^{\circ}\text{C}$ per minute, stability within 3 minutes
- Compact and lightweight, ideal for quick checks on-site
- Also available as Black Body Infrared Calibrator



Measuring equipments & Analyzers

Met One 3400+ Portable Airborne Particle Counter

- Customized electronic SOP cards
- Interactive tracking
- Automated SOP version management
- Review and approval
- Secure electronic documents
- Plug-and-play networking
- Sampling options 50 L/min and 100 L/min
- Barcode function (optional)



Met One HHPC+ serie Handheld Particle Counter

- Routine monitoring
- Lightweight and comfortable for hard-to-reach HEPA filter leaks
- Visual particle trends
- Cleanroom classification
- Easy network connectivity



Anatel PAT700

- TOC, conductivity and water temperature with just one analyzer
- Complies with 21CFR Part 11
- 12-month maintenance interval
- No chemicals
- No peristaltic pump
- One sensor for measuring TIC and TC
- Online and spot analysis in one analyzer
- Fully ICH Q2 compliant
- Complete oxidation
- Support for root cause analysis



HIAC 9703+ Pharmaceutical Particle Counter

- Precise liquid particle analysis for parenteral drug final product testing
- Regulatory Compliant Testing in compliance with USP 787, USP 788, USP789 and EP 2.9.19 standards
- Ensures fast, easy and repeatable testing of both protein-based drugs and traditional injectables
- Comprehensive Audit Trail Full traceability with secure, timestamped records
- Auto-Flush Routines reduces cross-contamination and enables less manual intervention
- Sampling probe and secure vial clamp ensure proper handling of delicate samples such as vaccines
- PharmSpec Software Supporting 21 CFR Part 11 Compliance features ALCOA-compliant data handling
- Automated Compendial Reporting Built-in pass/fail test routines generate compliant reports instantly
- Flexible Calibration & Sampling Multi-flow rate calibration for varying viscosities and sample volumes



Ametek Crystal XP3i – Digital Pressure Gauge

Digital pressure gauge for precise and robust pressure measurement.

- Range up to 15,000 psi / 1,000 bar
- Accuracy: 0.05% of reading or 0.02%/0.05% of full scale
- Maintains accuracy between -20 °C and +50 °C
- USB-C and Bluetooth for remote readout and configuration
- Optional DataLoggerXP stores >200 million data points (>1 year of continuous logging)
- Corrosion-resistant, intrinsically safe housing (MIL-STD-810 compliant)



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***Want to know more about these products?
Get in touch with us!***

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