



Temperature & Humidity Specialists

DISCOVER

Withnell Sensors

Withnell Sensors specialises in the temperature and humidity validation sector offering product solutions and service to many industries including; pharmaceutical, automotive, food and aerospace.

With many years of experience in our field we continue to be sought out as experts in the services that we offer. Our trained engineers offer independent advice, helping you to source the right products for your bespoke requirements. With over 10 years in business we are proud to work with many of the market leading, international manufacturers and research organisations.

We sell thermal validation equipment from some of the world's leading brands and offer the high calibre of after sales care and service that our customers have come to rely on. This includes bespoke calibration options from our UKAS accredited temperature calibration lab in Lancashire that offers some of the best temperature uncertainties in the UK. We also offer rental equipment to support seasonal mapping, project work and new plant commissioning.

If you have a temperature or humidity monitoring requirement then we would love to discuss how we can support you.

Customer Care Promise

Customer service is important to us, it is a fundamental part of our ethos and has acted as the driving force behind many of our commercial decisions. We aim to actively incorporate all feedback to ensure that we deliver better results for the future. Servicing an array of customers from small businesses through to multi-national organisations, we always endeavour to offer consistently high levels of service.

Exceptional Standards

Our background is within the pharmaceutical and Biotechnology sectors where we are practised to the high standards expected from world leaders in this field. We have adopted the same high standards across our business. Our in-house laboratory is accredited to the internationally recognised ISO/IEC 17025:2017. Our accreditation is a representation of our ability to offer complete quality assurance.



Service, Calibration and Mapping



Data Loggers and Thermocouples



Laboratory and Process Equipment



Thermal Validation Rental Equipment

Customers we are proud to have worked with:



Data Loggers & Thermocouples

There are so many data loggers available on the market today, each with its own benefits and limitations. There are many things to consider when selecting the right data logger, not least your budget but also technical specifications, on-going maintenance and shelf life. Using our extensive knowledge of the market we have carefully selected some of the leading brands to offer you the right equipment for your needs. Our independent, expert engineers are available to help you find the right equipment for your application.

DataTrace by Mesa Labs

This popular 'all rounder' is a wireless system and used globally by leading brands in critical manufacturing, quality control and transportation applications. Two different ranges offer users benefits including real-time data with the MPRF loggers and small, robust loggers with the MPIII range. Comprehensive, secure and user friendly software is available offering a range of reporting templates.

Temperature Range: -80 to +400°C

Temperature Accuracy: 0.1 - 0.5°C

Humidity Range: 0-100% rH

Humidity Accuracy: ±2%

Live Data: YES

Sterilisable: YES

CFR21 Part 11 Compliance: YES

Battery Life: Field replaceable

Average Samples: 16000

Cost: ££££



Vaisala

The ideal solution for continuous monitoring applications the Vaisala system provides a versatile and reliable replacement for chart recorders and bulky data acquisition systems. Offering high accuracy humidity and temperature recording alongside intuitive software featuring alarming, real-time and historical trending.

Temperature Range: -196 to +70°C

Temperature Accuracy: 0.25 - 0.5°C

Humidity Range: 0-100% rH

Humidity Accuracy: ±3%

Live Data: NO

Sterilisable: NO

CFR21 Part 11 Compliance: YES

Battery Life: 10 yr @ 1 Minute Interval

Samples: Up to 34300 per channel

Cost: £££



Kaye

Withnell Sensors is an Official partner and distributor of Kaye, who have been at the forefront of high accuracy process measurement for almost sixty years. The company specialises in areas such as thermal process validation and environmental monitoring, to sensor calibration. Kaye technology has provided the most precise and user-friendly measuring systems on offer in today's market. We can offer a range of dry block and liquid baths, IRTD's as well as the all new industry shaping AVS validation system and rental for the V2K.

Temperature Range: -196 to +400°C

Temperature Accuracy: 0.1 - °C

Live Data: YES

Sterilisable: YES

CFR21 Part 11 Compliance: YES

Cost: ££££



AiroSensor by SenseAnywhere

A new generation of wireless, ultra low power data loggers. Providing accurate temperature and humidity information and offering automatic, wireless transfer to the cloud. Data can be accessed from any smart device. These cost-effective loggers offer a solution for monitoring during transportation enabling customers to have a complete end-to end monitoring system.

Temperature Range: -40 to +70°C
Temperature Accuracy: 0.1°C
Humidity Range: 0-100% rH
Humidity Accuracy: ±2%
Live Data: YES (Cloud stores 1 million+ /5yrs)
Sterilisable: NO
CFR21 Part 11 Compliance: YES
Battery Life: 10 Yr @ 5 Minute Interval
Samples: 15000
Cost: ££



Elitech Data Loggers

Withnell Sensors is pleased to partner with Elitech in providing affordable, high quality data loggers. Elitech owns over 80 authorised patents including 30 software patents and is leading the way in providing temperature monitoring devices at an affordable price. The USB data loggers provide easy data access as well as an on screen LCD display with live information - Available in temperature only and temperature & rH models.

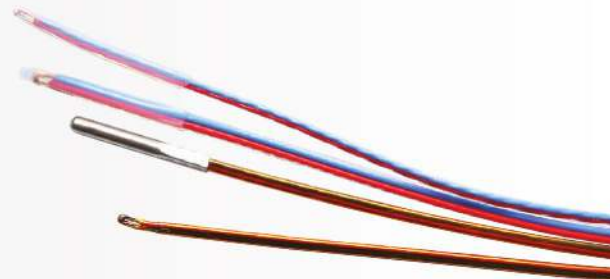
Temperature Range: -30 to +70°C
Temperature Accuracy: ±0.3°C
Humidity Range: 10-90% rH
Humidity Accuracy: ±3%
Live Data: YES
Sterilisable: YES
CFR21 Part 11 Compliance: YES
Battery Life: Up to 2 years+
Samples: Up To 16000
Cost: £



Thermocouples

Widely used type of temperature sensor for measurement and control and can also be used to convert heat gradient into electricity. They are inexpensive and interchangeable, are supplied fitted with standard connectors, and can measure a wide range of temperatures. We offer different types of thermocouples at bespoke lengths to suit differing applications.

Temperature Range: -196 to +400°C
Temperature Accuracy: 0.1°C
Humidity Range: N/A
Humidity Accuracy: N/A
Live Data: YES (With V2K)
Sterilisable: YES
CFR21 Part 11 Compliance: (With V2K)
Battery Life: N/A
Samples: N/A
Cost: £££



UKAS Data Logger & Probe Calibration

We offer UKAS calibration for a range of data loggers with temperature points covered from -90 to 140°C.

Our calibration service is tailored to your requirements, meaning the number of calibration points and required temperatures can be modified to suit your needs. We understand the inconvenience of having equipment away for calibration so offer on-site calibration or a rental service on a range of loggers and probes to support your needs while equipment is being calibrated. In house, our lab is equipped with extensive equipment to allow us to complete large numbers of calibrations at any one point which allows us to offer a competitive pricing structure on multiple loggers.

Kambic Laboratory & Process Equipment

Exclusive UK distributors of Kambic Metrology

Withnell Sensors are proud to partner with Kambic Metrology to offer an exclusive range of climatic chambers, calibration baths and laboratory process equipment. We use the Kambic range in our own calibration laboratory to provide impressive technical output and allowing for admirable uncertainties. We are happy to demonstrate the equipment for visitors to our site. Browse our products below for more detailed information or call to speak to one of our engineers.

Custom Solutions

Kambic Metrology offer 25 years of experience in the field of design and production of laboratory and process equipment. Their commitment to customer service is outstanding, like Withnell Sensors they recognise the importance of building long lasting commercial partnerships. If required bespoke solutions can be manufactured, our engineering team in the UK will assist with full installation, support and after-sales care.

Environmentally Friendly

Kambic calibration baths and all chambers are designed to maintain a lower level of GWP than the EU standard requirements.

Kambic Chambers

Our chambers allow you to simulate different climates and environments with ease and precision to assess safety or quality of your products, calibration of sensors, plant germination and growth and much more.

- Climatic Chambers
- Peltier Chambers
- Stability Chambers
- Temperature Chambers
- Plant Growth Chambers
- Walk In Chambers



Kambic Baths

Kambic baths are ideal for calibrating temperature sensors, transmitters or even complete temperature systems. We have portable options and various temperature ranges and volumes- they accommodate multiple systems at once and of various shapes and sizes.

- Calibration Baths
- Black Body Calibration Baths
- Micro Calibration Baths
- Air Baths



Kambic Ovens

Kambic high temperature and precision ovens are perfect for a host of applications such as; pilot & research, hot air drying, material and tool preheating, hot air sterilisation, curing of composites, low temp evaporation, vacuum drying and much more.

- High Temperature Ovens
- Composite Ovens
- Vacuum Ovens



Angelantoni Life Science (ALS)

Withnell Sensors partners with Angelantoni Life Science (ALS) - an international leader in the manufacturing of cold /cryogenic equipment and advanced systems in healthcare and biotechnology. Offering a wide range of standard and bespoke equipment for Research Centres, Hospitals, Laboratories, Academia, the Pharma industry & more. Products include; medical/ laboratory fridges and freezers, mortuary chambers, medical waste sterilisation systems, laminar flow hoods, blood banks and much more.

Laboratory and Medical Equipment:

Fridges & Freezers

Angelantoni series of refrigerators and freezers range from fully automated liquid nitrogen freezers to standard medical and laboratory fridges and freezers.

Plasma and Bloodbank Fridges and Freezers

We are thrilled to offer blood bank and plasma fridges, freezers and blasting units. ALS units provide unmatched quality and features partner effective costing and security.

Mortuary Chambers and Equipment

ALS mortuary chambers, running special internal handling and turnkey systems as well as offering mortuary equipment and accessories for the morgue.

Plant Growth & Stability Chambers

Primarily used for performing stability tests in the chemical-pharmaceutical sector and temperature, humidity and controlled lighting cycles for growing plants, insect incubation and the food industry.

Laminar Flow Hoods & Cabinets

The cabinets provide an aseptic work area whilst containing infectious splashes or aerosols produced by microbiological procedures. Laminar flow hoods shield the working environment from airborne contaminants such as dust.

Medical Waste Steriliser

Waster® is a new generation for medical waste treatment. It is the most advanced medical waste steriliser design carried out by Angelantoni Life Science, a leader in Infectious Control.



Industrial Equipment:

Giuseppe Angelantoni founded ALS all the way back in 1932 and all these years later, his and the company's reputation proceeds them for cold storage engineering. Angelatoni's ingenious work has passed through significant cold technology applications, some of which are patented, such as: the first test chamber at -60°C in 1954; the first autonomous vehicle-driven food transport system in 1956; the first freezer in Europe at -104°C in 1961 with mechanical cooling, without LN2. As well as the lab and medical systems provided by ALS- full industrial solutions are provided, such as;

- Cold Storage Rooms & Warehouses
- Custom Refrigeration & Chilling Systems
- Industrial Cooling Tunnels & Cabinets
- Brine Chilling Plants
- Package Refrigeration Units and Plants
- Thermal Treatment Engineered Equipment



Service, Calibration and Mapping

Have confidence in your results with our UKAS Temperature Calibration Services



We know that our customers often have bespoke service requirements. We also recognise that you might have a need for unscheduled repair or maintenance. This is why we offer a customer orientated, flexible approach to service arrangements. Whether it is a price competitive service agreement or a rapid turnaround on a repair, we are confident that we can accommodate your request.

UKAS Accredited Calibrations

We are proud to offer UKAS accredited calibrations of a wide range of equipment. You can view our calibration schedule on the UKAS website by searching our lab number 4595.

UKAS Data Logger & Probe Calibration

We offer UKAS calibration for a range of data loggers with temperature points covered from -90 to 140°C. Our data logger calibration service is tailored to the number of calibration points and temperatures you require. We offer a rental service on a range of loggers to support your needs during calibration. We are also accredited for on-site probe calibration if you would prefer for calibration in house.



UKAS PRT Temperature Calibration

Medium to high accuracy PRT's form an integral part of many calibration systems used across a wide range of industries and applications. We use a combination of fixed points and fluid comparison baths to offer precision PRT temperature calibration from -196 to 420°C.



UKAS Calibration for the Kaye IRTD, V2K and HTR/LTR

Our engineers have many years of experience calibrating and servicing the Kaye equipment. We are an Official partner of Kaye, with staff training and best practices shared from the brand. We are also currently the only service provider in Europe capable of offering a 17025 accredited calibration of the V2K system.



UKAS Temperature Block Calibration

Our technicians have worked with temperature blocks from leading brands such as Ametek, Druck, Fluke and Kaye. Strenuous testing is completed during the calibration to demonstrate how the temperature can differ from the cross section, as well as any temperature variances along the borings.

Temperature Mapping

We stock an extensive selection of equipment to enable us to offer mapping projects for warehouses, refrigerators, freezers, incubators, ovens and more! Our service levels cover basic advice right through to full execution of your project. Our services can be tailored to suit your project requirements, saving you time and delivering cost effective but necessary support.



Rental Equipment

There might be times where additional equipment is required at short notice to cover unexpected demands, new plant commissioning or in cases where equipment is away for calibration and repair. We stock a full range of temperature and humidity validation equipment available for hire on flexible terms to suit your needs.

The Complete Package

There are no hidden costs with our rental quotations. All equipment is checked before dispatch and comes complete with all of the required accessories such as power cables, laptops and calibration certificates. We will ship in a suitable shipping case to provide complete protection while in transit.

What we offer:

Kaye Validation Equipment

The Kaye product range is used by many leading pharmaceutical manufacturers to ensure compliance with control measures and regulatory requirements for critical thermal processes. We maintain stock of these systems for customers who may need to hire additional equipment at short notice.

Vaisala

Vaisala loggers are a versatile and reliable replacement for chart recorders and bulky data acquisition systems, ideal for mapping/validation, the data loggers provide high accuracy humidity and/or temperature measurement and recording.

DataTrace

The DataTrace® products are self-contained, high precision stainless steel data loggers used in critical manufacturing and quality control applications. Data logger hire can be a better option than a full purchase- however both options are available for the Datatrace range.

Ametek 125A

The Ametek 125A professional dry block temperature calibrator – the JOFRA® PTC-125, is a versatile temperature calibrator available with a temperature range from -90 to 125°C. Rental is suitable for project work and is often used as a stable and moveable heat source when conducting pre and post verifications for temperature sensors and thermocouples.

SenseAnywhere

We stock the SenseAnywhere loggers ready for next-day dispatch. Our customers use our rental services to support new plant commissioning, project work and to swap out with existing loggers while their equipment is being calibrated. Starting from just £12.50 per logger per week and are maintained with a UKAS accredited calibration.



01254 831375

sales@withnellsensors.co.uk

withnellsensors.co.uk

Withnell Sensors, The Old Silk Mill, Withnell, Chorley, Lancashire PR6 8RX

Withnell Sensors
Data Loggers, Thermocouples & Calibration