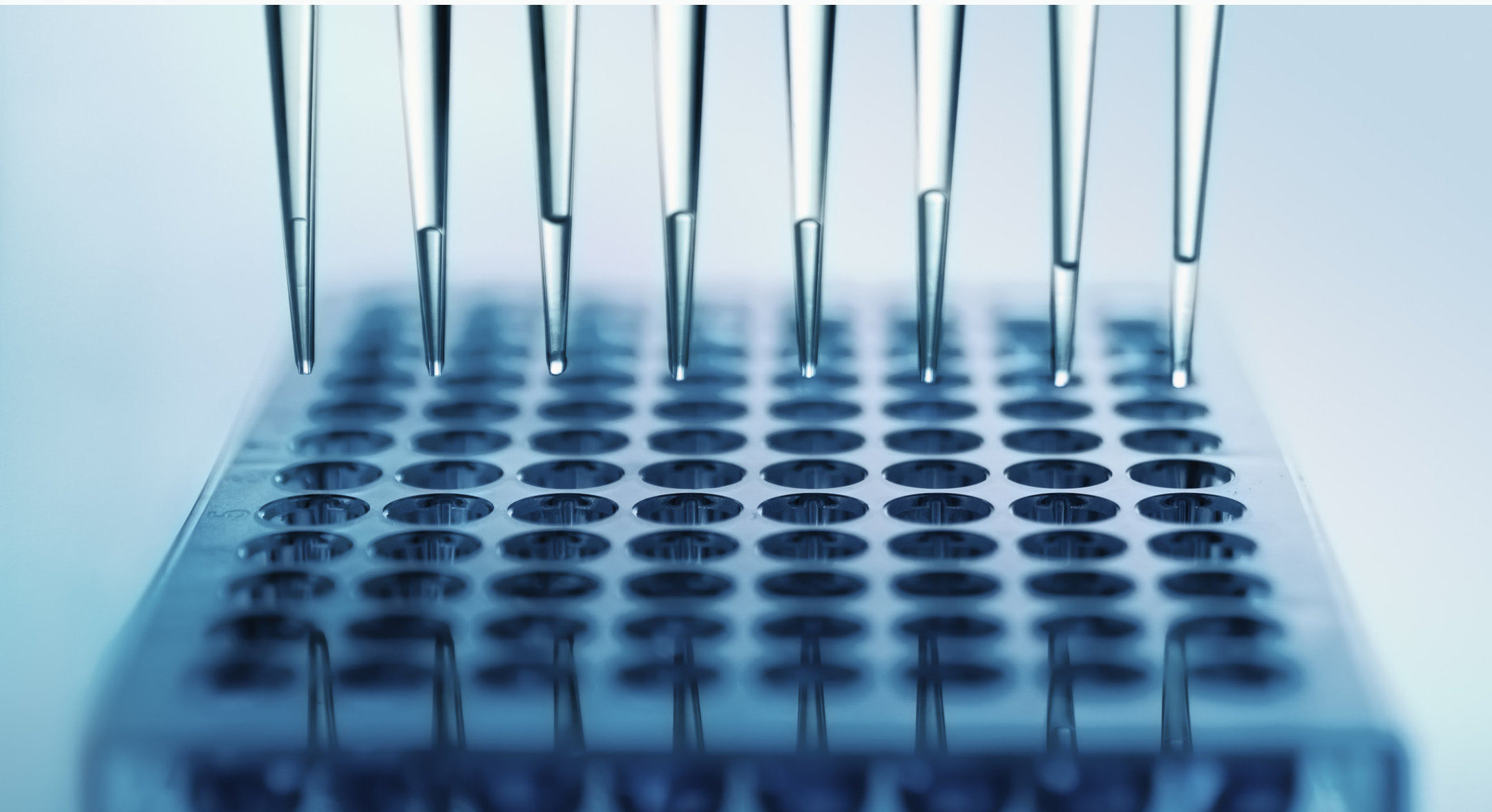




eUROPEANiNSTRUMENTS



Pipette Service & Calibration Guide

A complete guide to understanding our Pipette Calibration and Repair Service.



European Instruments' expert knowledge and experience in liquid handling technology is able to maintain, repair and service most types of makes and models of pipettes.

This comprehensive knowledge of such a wide range of equipment guarantees our clients can rely upon a high standard of service from one supplier.





Traceability

To ensure that your organisation remains compliant with your own quality systems and to have confidence that your pipette is measuring accurately it is essential that your supplier of calibration services can demonstrate traceability of the standards used.

European Instruments can demonstrate an unbroken chain of traceability back to international standards as;

- **All weight sets used by us hold current certification traceable to the UK National Standards through a UKAS Certificate.**
- **OIML check weights used for calibrations are according to UKAS recommendations.**
- **Weights are calibrated no less frequently than once per year**
- **Weight certificate copies are available on request.**



Certification Types Available



UKAS Certificate:

UKAS is the sole national accreditation body recognised by the government to assess, against internationally agreed standards, organisations that provide certification, testing, inspection and calibration services.

- Demonstrates traceability back to international standards
- Provides in-depth assessment of pipettes performance
- Records the environmental conditions (Barometric Pressure, Temperature, and Humidity) then tests Pipette's performance
- Uncertainty Measurement is calculated and reported on the certificate.

Standard Certificate:

Calibration carried out according to our ISO 9001 procedures, following the DIN 12650 standard.

The DIN standard:

- Describes work involved with dispensing systems
- Stipulates requirements in regards to physical properties
- Lists detailed instructions for testing accuracy and precision carried of dispensing systems
- Includes limits for the admissible limits of error for the various dispensing systems



Key Features of Service

- Calibrations are performed by expert pipette technicians, using state of the art precision balances, who carry an Extensive inventory of original manufacturer parts.
- Choose from three standard test plans: QuickCal, FullCal, UKASCal or we can **develop a test plan to suit your calibration requirements.**
- Gravimetric evaluation based on your regulatory needs. This assessment can be made against EI service limits or customer specification. Our technical team can discuss and guide you through this process.
- We offer a competitive transparent service for pipette calibration with a simple pricing structure. We do not set a minimum charge for a day; **you only pay the unit price agreed**



Levels of Calibration

UKASCal 3.10 – UKAS Pipette Calibration

Service includes cleaning, servicing, a full range performance check, and a UKAS Certificate of Calibration.

Type	Num. of Readings	Test Points
Single	10	10 @ Nominal
Multi-Range	30	10 @ Min / Mid / Max
Electronic Pipette	30	10 @ Min / Mid / Max
MultiPette	30	10 @ Min / Mid / Max
Multi 8 Channel	240	10 / Chan @ Min / Mid / Max
Multi 12 Channel	360	10 / Chan @ Min / Mid / Max
Multi 16 Channel	480	10 / Chan @ Min / Mid / Max
Dispenser	30	10 @ Min / Mid / Max
Edos	30	10 @ Min / Mid / Max



Levels of Calibration

FullCal – ISO Pipette Calibration

Service includes cleaning, servicing, a full range performance check, and a Standard ISO Certificate of Calibration.

Type	Num. of Readings	Test Points
Single	10	10 @ Nominal
Multi-Range	18	6 @ Min / Mid / Max
Electronic Pipette	18	6 @ Min / Mid / Max
MultiPette	48/50	48/50 @ Min / Mid / Max
Multi 8 Channel	144	6 / Chan @ Min / Mid / Max
Multi 12 Channel	216	6 / Chan @ Min / Mid / Max
Multi 16 Channel	288	6 / Chan @ Min / Mid / Max
Dispenser	18	6 @ Min / Mid / Max
Edos	18	6 @ Min / Mid / Max



Levels of Calibration

QuikCal Pipette Calibration

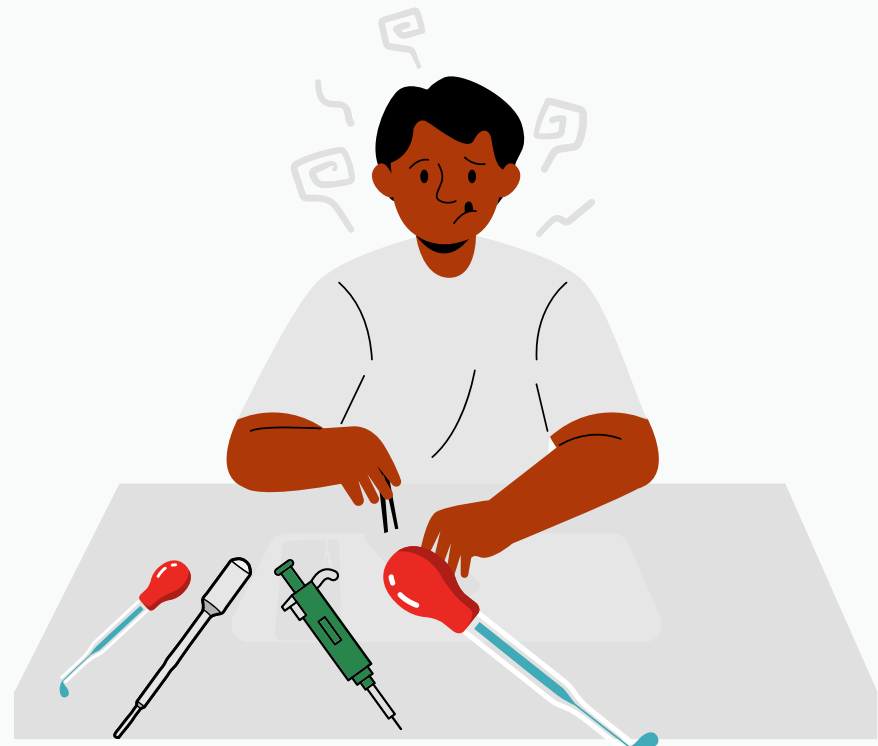
Designed for those who may not require extensive measurements & calibration; a simple performance check & a certificate.

Type	Num. of Readings	Test Points
Single	4	4 @ Nominal
Multi-Range	4	2 @ Min / Max
Electronic Pipette	4	2 @ Min / Max
MultiPette	10	10 @ Nominal
Multi 8 Channel	32	2 / Chan @ Min / Max
Multi 12 Channel	48	2 / Chan @ Min / Max
Multi 16 Channel	64	2 / Chan @ Min / Max
Dispenser	4	2 @ Min / Max
Edos	4	2 @ Min / Max



Pipette Repair

- We offer every service from a simple clean and calibration to major component repair or replacement.
- All pipettes receive a calibration certificate before supply back to the customer.
- All prices include carriage and a next day return service is available on request at an extra cost.
- All calibrations are traceable to the National Standard and certification ranges between a simple QuickCal to a UKAS certificate of calibration.
- We can also supply replacement pipettes and tips required
- We offer trade in on pipettes that are deemed beyond economical repair.



For any queries or further guidance please contact:
Sales@ei.co.uk

Or to speak to one of the team please call: 01865 750375