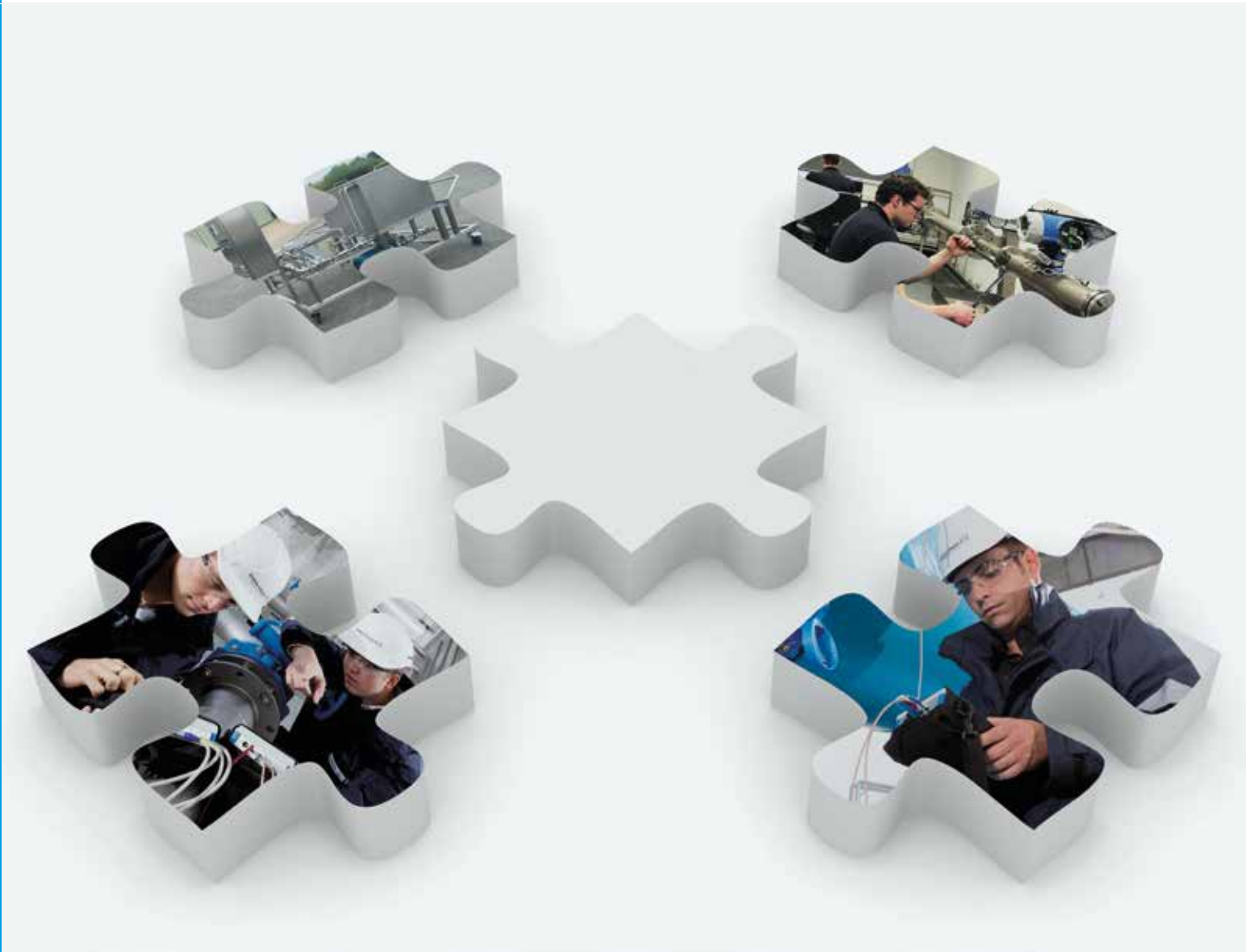


# The right fit

Whatever your flow calibration needs



## Count on us for calibration

Regular calibration is essential - not only to ensure that the measuring instruments controlling your quality-critical processes remain in spec, but also to gather information about the current condition of the device.

Fluctuating measurements can impact on process stability and operating costs and potentially have legal and regulatory consequences. Yet the needs of every industry are different. This is why Endress+Hauser offers a full range of calibration services, from laboratory calibration to on-site calibration and verification. Whatever your requirements, you can count on us!

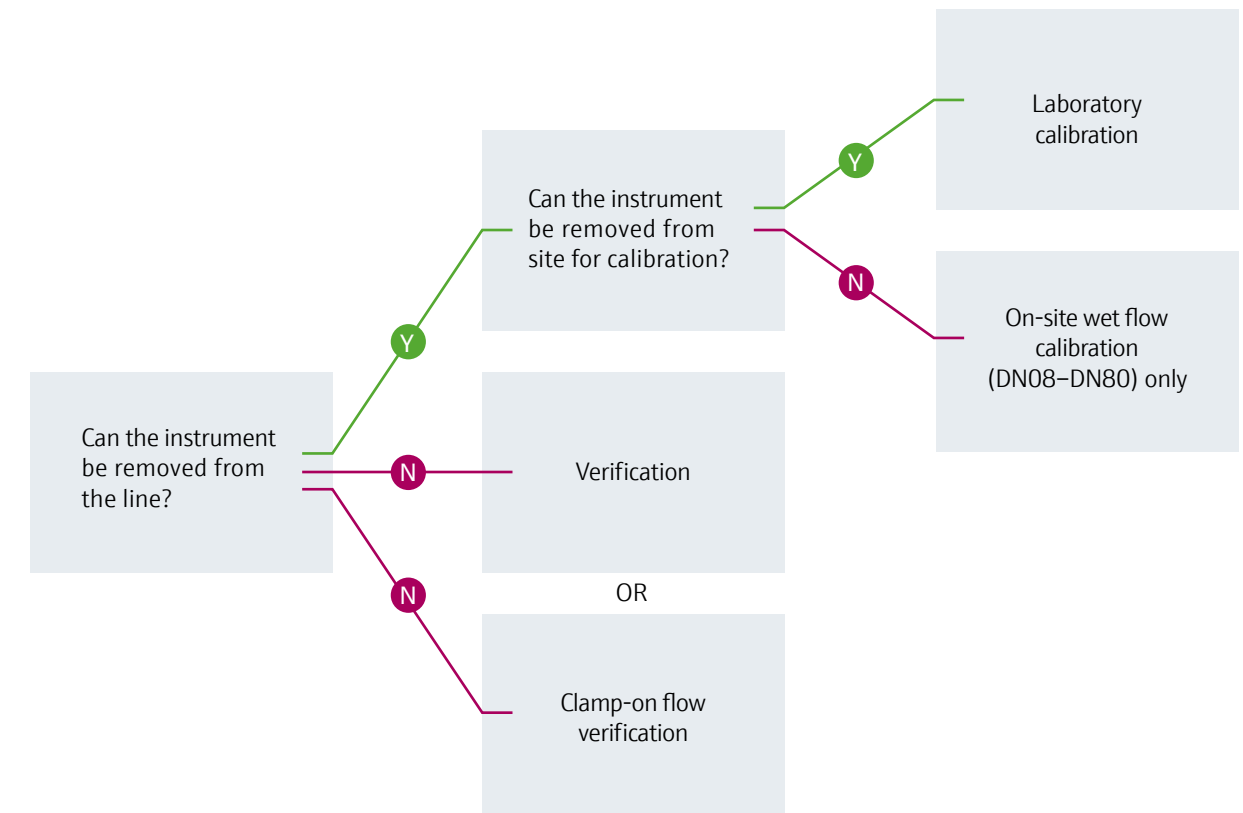
Both Endress+Hauser and third-party devices can be calibrated either on site or at Endress+Hauser facilities. The main objective is to check the accuracy of measurements by comparing your device's measurements with those of known traceable references. The results of the comparisons are recorded in clear and concise calibration certificates.

### Cost-effective, reliable calibration when you need it:

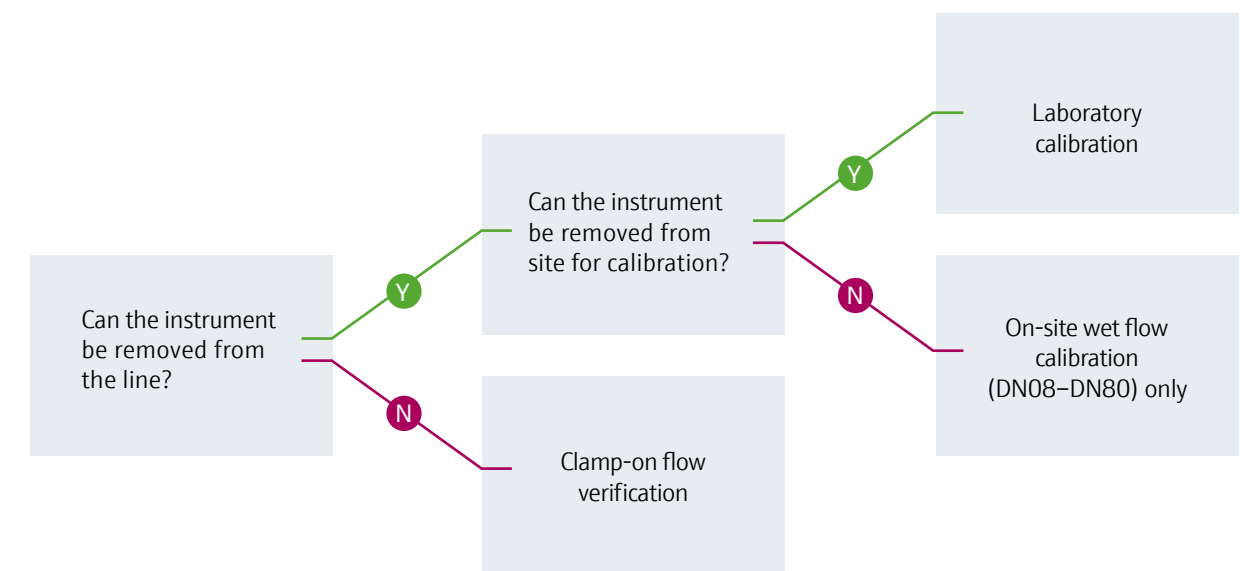
- Benefit from full compliance and audit readiness with complete and traceable calibration performed in line with our ISO 17025 accreditation.
- Secure accurate and repeatable results for your devices over their entire life cycle by putting our metrology expertise to work for you.
- Keep all your processes working reliably and your devices in spec. Our on-site calibration services deliver precise, dependable and cost-effective calibration.
- Make safe procedures a priority to prevent harm to users, consumers and the environment. Compliant calibration ensures the safety of your processes and products.



## Endress+Hauser instrument



## Third-party instrument





## UKAS-accredited laboratory calibration

Calibration performed in a laboratory offers the best calibration uncertainty and the widest calibration ranges.



**Highest accuracy** At our UK headquarters our water flow rig incorporates the very latest developments in flow technology to provide high-quality calibrations. The facility is accredited by UKAS (Accreditation No. 10496) to the ISO 17025:2017 standard.

Flowmeters from 1mm to 100mm are calibrated against Endress+Hauser Promass Coriolis dual reference meters. Our flow rigs are suitable for any meter with DIN/ANSI flanges, screwed threads or hygienic process connections. Flowmeters larger than 100mm in diameter are sent to our primary calibration facilities in Europe, so there's virtually nothing we can't handle. In Manchester, we offer a wide range of calibration and testing including pressure and temperature. Our laboratories can also provide traceable calibration or UKAS-accredited calibration, specifications of which are highlighted in the adjacent table. Contact our team of in-house experts to discuss your requirements.

### We need:

- A completed Endress+Hauser COSHH form

### Turnaround time:

- From 3 days

### Pipe diameters liquids:

- 1mm–4mm – flow rate 1–100 kg/h\*
- 8mm–100mm – flow rate 80–80,000 kg/h\*

### Third-party instrument requirements:

- Process connection details
- Order code
- Output type (mA, pulse)
- Manufacturer

### Traceable calibration

- DN2–DN4mm – 1–100 kg/hr
- DN8–DN100mm – 80–80,000 kg/hr

### UKAS-accredited calibration

- DN4–DN25mm – 25–100 kg/hr
- DN8–DN100mm – 80–80,000 kg/hr

## On-site calibration

Calibration performed by highly trained engineers close to operating conditions is convenient, cost-effective and keeps downtime to a minimum.



**Flow** - This highly flexible calibration can be scheduled according to the needs of your process. Our qualified and experienced field service engineers can perform adjustments, diagnose faults and recalibrate instantly where necessary, regardless of manufacturer. Our mobile rigs are fully traceable to national standards.

**Temperature** - We can provide temperature calibration on site during shutdowns or at other convenient times, allowing sites to remain compliant.

**Pressure** - In accordance with the ISO 17025 standard, you will receive a verification certificate and, if necessary, an adjustment certificate with this on-site calibration.

**Analytical** - Using the latest advances in offline calibration, we can perform fully documented, traceable calibration of your pH/ORP, conductivity, dissolved oxygen and chlorine Memosens sensors. The final report includes all of the sensor's calibration and operation history, including a chart showing historical slope and zero point – vital aids for predictive maintenance.

### We need:

- Access to a water source
- A safe work area, ideally 3m<sup>2</sup> and under cover
- A 220v power source for the calibration rig
- The meters being calibrated to be taken out of line

### Tell us:

- Is a site induction required?
- Is the process hygienic?
- Do you require a copy of the risk assessment/method statement before we attend site?

### Pipe diameters:

- Coriolis, mag and vortex: 8mm–80mm
- We can also calibrate third-party flowmeters

### Third-party instrument requirements:

- Process connection details
- Order code
- Manufacturer
- Output type (mA, pulse)



## Verification

On-site flowmeter verification of Endress+Hauser flowmeters – a simple and proven way to extend calibration intervals.



Endress+Hauser's Fieldcheck® verification tool or our new Heartbeat technology provide a healthcheck for a flowmeter, ensuring key device parameters remain within Endress+Hauser's original specification. Instruments can be verified and back in operation within 30 minutes without being removed from the line.

### We need:

- Safe access to the instrument(s) requiring verification
- To disconnect the instrument's outputs to perform the test – except for Heartbeat verification where outputs are not required to be disconnected

### Tell us:

- Is a site induction required?
- Do you require a copy of the risk assessment/method statement before we attend site?

## Clamp-on flow verification

Clamp-on verification is an ideal alternative when an electronic verification is not possible.



It allows the instrument to be verified without process interruption while still remaining compliant to ISO 9001, by confirming the operation of your instrument and helping to extend the time period between calibrations. It's a completely safe, non-invasive technology suitable for a wide range of liquids.

### We need:

- The process to be running
- Safe access to the instrument(s) requiring verification
- A minimum straight length, which is dependent on the line size. Details are available in the technical information of the Prosonic Flow 93W, 93P, 93T
- A 0.5m section of pipework to be clear of insulation to fit the clamp-on flowmeter
- If pipes are lagged, a section needs to be removed to perform the verification

### Tell us:

- Is a site induction required?
- Do you require a copy of the risk assessment/method statement before we attend site?

### Pipe diameters:

- 15mm–4,000mm

**UK**

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