Calibration evidence checklist

Records to request and review for a specific VTX configuration

Document status - application guide and configuration review checklist. Use a controlled configuration datasheet, approved drawing and written quotation to define the delivered model, ratings, documents and commercial terms.

Identify the complete measurement configuration

- Exact product model and revision, unique serial number, axis, detector, range, units, connector and any conditioning or output option.
- Measuring bandwidth, reference frequency, mounting method, torque, fixture and environmental conditions.
- Requested calibration method, points, uncertainty requirement and report format.

ISO 16063-21 method review

Where a comparison vibration calibration is requested, ask the calibration provider to identify the applicable ISO 16063-21 method and edition, reference transducer, comparison arrangement, excitation conditions and uncertainty budget for that service.

For a 4-20mA transmitter, define the calibrated quantity and detector together with the current-output measurement. Ask how zero output, reference-frequency response, sensitivity and any frequency sweep were evaluated.

Review the actual report fields

- Report number, issue date, provider identity, authorizing person and the serial-number link to the supplied device.
- Results with units, applied points, uncertainty and stated coverage factor where applicable.
- Reference-instrument serial numbers, calibration status and a documented traceability chain.
- Any conformity statement, decision rule, adjustments, limitations and as-found / as-left status.

Calibration evidence checklist (continued)

Records to request and review for a specific VTX configuration

Accreditation and traceability scope

If accredited calibration is required, verify the laboratory’s current accreditation and scope for the requested quantity, method and range. Ask the supplier to identify which results fall within that scope. Reference standards and national-metrology links need supporting records.

Manufacturing and environmental evidence

- For 316L material, request the relevant material declaration or traceable record for the exact housing configuration.
- For enclosure protection, request the test standard, report, tested assembly and cable / connector conditions.
- For EMC, request the applied standard, test configuration, operating modes and report or declaration scope.
- For temperature exposure, request the accepted operating / storage envelope and relevant test conditions.

Acceptance and delivery record

Agree before ordering whether the delivery includes a serial-numbered calibration report, a conformity statement, accredited results, an available frequency plot, or another documented scope. Record document identifiers against the shipment and asset list.

Use the plant RFQ worksheet to request a genuine sample report and the proposed production documentation. VTX application guides describe the review process. Controlled records for the supplied hardware establish the accepted calibration and compliance scope.

https://vibrationtransmitters.com/contact/

Machine evaluation and engineering reference

Select the applicable ISO 20816 part and adopted edition for the machine, support, speed, measurement direction and operating state. Overall housing vibration and changes from a baseline support condition trending. A diagnostic bearing assessment may need high-frequency features or waveforms.

https://www.iso.org/standard/89922.html