



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

KISTLER INSTRUMENT CORP.
INDUSTRIAL PROCESS CONTROL DIVISION
30280 Hudson Drive
Novi, MI 48377
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CALIBRATION

Valid To: December 31, 2019

Certificate Number: 3453.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following calibrations¹:

I. Mechanical

Parameter/Equipment	Range	CMC ^{2,4,5} (±)	Comments
Torque Transducers ³	(2 to 10) N·m (10 to 200) N·m (50 to 500) N·m 500 N·m to 2 kN·m (2 to 4) kN·m	0.14 % 0.12 % 0.12 % 0.13 % 0.13 %	VDI/VDE 2646, reference transducer
Torque Wrenches ³	(2 to 500) N·m	1 % + R	ISO 6789, reference transducer

¹ This laboratory offers commercial calibration service and field calibration service.

² Calibration and Measurement Capability Uncertainty (CMC) is the smallest uncertainty of measurement that a laboratory can achieve within its scope of accreditation when performing more or less routine calibrations of nearly ideal measurement standards or nearly ideal measuring equipment. CMCs represent expanded uncertainties expressed at approximately the 95 % level of confidence, usually using a coverage factor of $k = 2$. The actual measurement uncertainty of a specific calibration performed by the laboratory may be greater than the CMC due to the behavior of the customer's device and to influences from the circumstances of the specific calibration.

³ Field calibration service is available for this calibration and this laboratory meets A2LA R104 – *General Requirements: Accreditation of Field Testing and Field Calibration Laboratories* for these calibrations. Please note the actual measurement uncertainties achievable on a customer's site can normally be expected to be larger than the CMC found on the A2LA Scope. Allowance must be made for aspects such as the environment at the place of calibration and for other possible adverse effects such as those caused by transportation of the calibration equipment. The usual allowance for the actual uncertainty introduced by the item being calibrated, (e.g. resolution) must also be considered and this, on its own, could result in the actual measurement uncertainty achievable on a customer's site being larger than the CMC.

⁴ In the statement of CMC, the value is defined as the percentage of reading.

⁵ In the statement of CMC, *R* is the resolution of the unit under test.





Accredited Laboratory

A2LA has accredited

KISTLER INSTRUMENT CORP.

Novi, MI

for technical competence in the field of

Calibration

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *General requirements for the competence of testing and calibration laboratories*. This laboratory also meets R205 – Specific Requirements: Calibration Laboratory Accreditation Program. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system *(refer to joint ISO-ILAC-IAF Communiqué dated April 2017)*.



Presented this 15th day of February 2018.

A handwritten signature in black ink, written over a horizontal line.

President and CEO
For the Accreditation Council
Certificate Number 3453.01
Valid to December 31, 2019