

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017 & KS Q ISO/IEC 17025:2017

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CALIBRATION

Valid To : Feb. 22, 2027.

Accreditation No : KC23-417

In recognition of the successful completion of the KOLAS evaluation process,  
 accreditation is granted to this laboratory to perform the following calibrations

Field Code	Item of Calibration	on-site	Field Code	Item of Calibration	on-site	Field Code	Item of Calibration	on-site
102. Linear dimension								
10210	Extensometers, linear displacement transducers	N						
10216	Height gauges/measuring machines	N						
202. Force								
20203	Tension/compression testing machines	Y						

Note

1. This laboratory provides calibration services in permanent standard laboratory and at on-site.
2. Laboratory conducts on-site calibration should meet requirements of KOLAS-SR-007.
3. On-site calibration is allowed to items with marking 'Y', not allowed to items with marking 'N'.
4. Measurement uncertainty normally is quoted as an expanded uncertainty at a coverage probability of 95 %, which usually requires the use of a coverage factor of  $k=2$ . It expresses the lowest uncertainty of measurement that can be provided by accredited calibration laboratories in normal conditions.
5. Due to the calibration environment such as reference standards or customers' facilities, it is note that uncertainty of measurement on a calibration certificate may be expressed larger than measurement uncertainty on scope of accreditation in general.

102. Linear dimension

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Extensometers, linear displacement transducers	10210	(0 ~ 100) mm	8 μm	Dial/cylinder gauge testers, Multimeters /KCICC-CQI-10210
Height gauges/measuring machines	10216	(0 ~ 600) mm	$\sqrt{7.8^2 + (0.004 \times l)^2}$ μm ( l of unit mm)	Step gauges, /KCICC-CQI-10216

202. Force

Measured Quantity Instrument or Gauge	Field Code	Range	Measurement uncertainty (The Confidence Level is about 95 %)	Standard/Method of Measurement etc.
Tension/compression testing machines	20203			
Compression		(20 ~ 100) kN	$1.7 \times 10^{-3}$	Loadcell
Tension		(20 ~ 100) kN	$1.6 \times 10^{-3}$	/KCICC-CQI-20203
Compression		(100 ~ 200) kN	$1.5 \times 10^{-3}$	
Tension		(100 ~ 200) kN	$1.7 \times 10^{-3}$	