

## Length, Chinese TAIPEI, CMS (Center for Measurement Standards)

Calibration or Measurement Service			Measurand Level or Range			Measurement Conditions/Independent Variable		Expanded Uncertainty					NMI Internal Identifier
Class	Instrument or Artifact	Instrument Type or Method	Minimum value	Maximum value	Units	Parameter	Specifications	Value	Units	Coverage Factor	Level of Confidence	Is the expanded uncertainty a relative one?	
Laser radiations	Sabilized laser of the mise en pratique, absolute frequency	Optical beat frequency	633	633	nm			24	kHz	2.0	95%	No	D16
End standards	Gauge block (steel), central length $L$	Mechanical comparison to gauge block	0.5	100	mm			Q[33, 0.5L], $L$ in mm, values range from 33 nm to 60 nm	nm	2.0	95%	No	D01
End standards	Gauge block (ceramic), central length $L$	Mechanical comparison to gauge block	0.5	100	mm			Q[33, 0.7L], $L$ in mm, values range from 33 nm to 78 nm	nm	2.0	95%	No	D01
End standards	Gauge block (tungsten carbide), central length $L$	Mechanical comparison to gauge block	0.5	100	mm			Q[34, 3.3L], $L$ in mm, values range from 34 nm to 332 nm	nm	2.0	95%	No	D01
End standards	Gauge block (chromium carbide), central length $L$	Mechanical comparison to gauge block	0.5	100	mm			Q[33, 1.4L], $L$ in mm, values range from 33 nm to 144 nm	nm	2.0	95%	No	D01
Angle by circle-dividers	Optical polygon, face angle	Index table and autocollimator, full closure	15	120	°	Number of faces	3 to 24	0.7	"	2.0	95%	No	D07
Surface texture	Roughness standard: ISO parameters, e.g. Ra	2-D profile stylus instrument	Ra < 6	6	µm			40	nm	2.0	95%	No	D13