

Time and Frequency, Slovenia, MIRS/SIQ/Metrology (MIRS/Slovenian Institute of Quality and Metrology/Metrology)



Calibration or Measurement Service			Measurand Level or Range			Measurement Conditions/Independent Variable		Expanded Uncertainty					Comments
Quantity	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?	
Frequency	Local frequency standard	Phase measurement	0.1	0.1	MHz	Averaging time	24 h	2E-13		2	95%	Yes	Approved on 21 April 2005
Frequency	Local frequency standard	Phase measurement	1	1	MHz	Averaging time	24 h	2E-13		2	95%	Yes	Approved on 21 April 2005
Frequency	Local frequency standard	Phase measurement	5	5	MHz	Averaging time	24 h	2E-13		2	95%	Yes	Approved on 21 April 2005
Frequency	Local frequency standard	Phase measurement	10	10	MHz	Averaging time	24 h	2E-13		2	95%	Yes	Approved on 21 April 2005
Frequency	General frequency source	Frequency counter	0.001	1.00E+05	Hz	Averaging time	1000 s	$(3E-06/f + 1.7E-11)$, f measured frequency in Hz	Hz/Hz	2	95%	Yes	Approved on 21 April 2005
Frequency	General frequency source	Frequency counter	0.0001	26.5	GHz	Averaging time	1000 s	1E-12	Hz/Hz	2	95%	Yes	Approved on 21 April 2005
Time interval	Delay source	Oscilloscope	10	100	ps	Source impedance	50 ohm	0.12 to 0.025	ps/ps	2	95%	Yes	Approved on 21 April 2005
Time interval	Delay source	Oscilloscope	0.1	1	ns	Source impedance	50 ohm	0.026 to 0.008	ns/ns	2	95%	Yes	Approved on 21 April 2005
Time interval	Delay source	Oscilloscope	1	1000	ns	Source impedance	50 ohm	0.008 to 0.0001	ns/ns	2	95%	Yes	Approved on 21 April 2005
Time interval	Time difference source	Time interval counter	1E-06	5	s	Rise time	< 1 ns	$(0.1 + 1E-09t)$, t measured time interval in seconds	ns	2	95%	No	Approved on 21 April 2005
Time interval	Rise/fall time source	Oscilloscope	50	10000	ps	Repetition frequency	up to 100 kHz	$(30 + 0.05tr)$, tr measured rise time in seconds	ps	2	95%	No	Approved on 21 April 2005