

Time and Frequency, Slovakia, SMU (Slovensky Metrologicky Ustav)

Calibration or Measurement Service			Measurand Level or Range			Measurement Conditions/Independent Variable		Expanded Uncertainty						Comments	NMI Service Identifier
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?			
Time scale difference	Local clock vs. UTC(SMU)	Direct comparison	-1	1	s	Pulse amplitude	0.1 V to 1 V	2	ns	2	95 %	No	Fractional part of modulo 1 second difference, integer part can be provided also. Approved on 18 November 2009	1	
Time scale difference	Local clock vs. UTC	Direct comparison	-1	1	s	Prediction time	20 days	100	ns	2	95 %	No	Fractional part of modulo 1 second difference, integer part can be provided also. Approved on 18 November 2009	2	
Time scale difference	Local clock vs. UTC		-1	1	s	Postprocessed	0 to 5 days	50	ns	2	95 %	No	Fractional part of modulo 1 second difference, integer part can be provided also. Approved on 18 November 2009	3	
Frequency	Local frequency standard	Phase time measurement	1	1	MHz	Averaging time	1 day	5E-13	Hz/Hz	2	95 %	Yes	HP 53 132A + Cs. Approved on 18 November 2009	4	
Frequency	Local frequency standard	Phase time measurement	5	5	MHz	Averaging time	1 day	5E-13	Hz/Hz	2	95 %	Yes	HP 53 132A + Cs. Approved on 18 November 2009	5	
Frequency	Local frequency standard	Phase time measurement	10	10	MHz	Averaging time	1 day	5E-13	Hz/Hz	2	95 %	Yes	HP 53 132A + Cs. Approved on 18 November 2009	6	
Frequency	Local frequency standard	Frequency difference multiplication	1	1	MHz	Averaging time	10 s	5E-11	Hz/Hz	2	95 %	Yes	HP 53 132A + (C7-12) + Cs. Approved on 18 November 2009	7	
Frequency	Local frequency standard	Frequency difference multiplication	5	5	MHz	Averaging time	10 s	5E-11	Hz/Hz	2	95 %	Yes	HP 53 132A + (C7-12) + Cs. Approved on 18 November 2009	8	
Frequency	Local frequency standard	Frequency difference multiplication	10	10	MHz	Averaging time	10 s	5E-11	Hz/Hz	2	95 %	Yes	HP 53 132A + (C7-12) + Cs. Approved on 18 November 2009	9	
Frequency	General frequency source	Direct comparison	1	3E+09	Hz	Averaging time	1000 s	6E-12	Hz/Hz	2	95 %	Yes	HP 53 132 + Cs. Approved on 18 November 2009	10	
Frequency	General frequency source	Direct comparison	1E-02	46	GHz	Averaging time	10 s	4	Hz	2	95 %	No	HP 53 152 + Cs . Approved on 18 November 2009	11	

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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?		
Time interval	Period source	Time interval counter	1E-02	10	s	Averaging period	≥ 100 s	2	ns	2	95 %	No	HP 53 132A + Cs. Approved on 18 November 2009	12
Time interval	Rise/fall time source	Time interval counter	1E-02	1	s	Averaging period	≥ 100 s	2	ns	2	95 %	No	HP 53 132A + Cs. Approved on 18 November 2009	13
Time interval	Pulse width source	Time interval counter	1E-02	1	s	Averaging period	≥ 100 s	2	ns	2	95 %	No	HP 53 132A + Cs. Approved on 18 November 2009	14
Time interval	Time difference source	Time interval counter	1E-02	1	s	Slewing rate	> 0.5 V/ns	2	ns	2	95 %	No	HP 53 132A + Cs. Approved on 18 November 2009	15
Time interval	Delay source	Time interval counter	1E-02	1	s	Slewing rate	> 0.5 V/ns	2	ns	2	95 %	No	HP 53 132A + Cs. Approved on 18 November 2009	16