

Time & Frequency

Parameter/Equipment	Range	CMC ² (±)	Comments
Stop Watches & Timers ³	(0.2 to 10 000) s	1.8 parts in 10 ⁷ + trigger error	HP 53131A
	(+10 to -10) s/day	0.05 s/day	Vibrograph TM4500
Frequency – Measuring Equipment	10 000 000 Hz	50 pHz/Hz	TrueTime XL-DC GPS receiver
	0.01 Hz to 80 MHz	2 μHz/Hz	Agilent 33250A
		10 nHz/Hz	33250A synchronized w/ GPS
	(0.1 to 3000) MHz	2 μHz/Hz	Agilent 8648C
		10 nHz/Hz	8648C synchronized w/ GPS
Frequency – Measure	10 MHz	100 pHz/Hz	TrueTime XL-DC GPS receiver
	0.1 Hz to 225 MHz	19 μHz/Hz	Agilent 53131A frequency counter
		1 nHz/Hz	53131A synchronized w/ GPS
	(0.1 to 3000) MHz	0.19 μHz/Hz	Agilent 53131A channel 3
		1 μHz/Hz	53131A synchronized w/ GPS