














8.5-digit DMMs Summary

Manufacturer	Model	Front panel	Country	Production		Voltage Reference	Full Scale (Conversion time)	DCV, ppm	TC, ppm/C	RMS noise, ppm	INL, ppm	Note
				begin	end							
Solartron	7081		United Kingdom	1983	1989	1N829A (noise 0,03 ppm)	140000000 (51.2 sec)	11+0.3	0.8	0.06*	0.2 0.1*	PLL Clock
HP / Agilent	3458A		USA	1988 Drawings 1988		LTZ1000A	120000000 (1/5 sec ^{PLC10})	8+0.3 4+0.3	0.15	0.01*	0.1	Artifact calibration: 10 V/10 kOhm
	3458A 002											
Datron	1271		United Kingdom	~1988	Discontinued	LTZ1000 + LM399AH	200000000 (10 sec)	7+0.25	0.25	0.025*	0.25	PLL Clock
Datron	1281		United Kingdom	1988	Discontinued	2×LTZ1000	200000000 (25 sec)	3+0.2	0.25	0.015*	0.1	
Wavetek				~ 1992								
Fluke	8508A		USA	2002		LTZ1000	200000000 (25 sec)	2.7+0.2	0.3		0.1	
				~2008		LTFLU-1						
Keithley	2002		USA	1994		LTZ1000A	210000000 (1/5 sec ^{PLC10})	10+0.15	0.3	0.03 0.07*	0.2	
Prema	6048		Germany	1991 Drawings 1988	2002	LTZ1000	200000000 (20 sec)	5+1.0	0.05 ¹		0.1	PLL Clock. Since 2002 available only in the JVS 7000 PREMA Josephson Junction Array
Advantest	R6581(D,T)		Japan	1994	Discontinued	LTZ1000	120000000 (1/5 sec)	5+0.2	0.15	0.025*		Artifact calibration 10V/10 kΩ, 50 kS/s R6581D: DCV, DCI, Ω only R6581T: DCV, DCI, Ω only, 120 or 300 VDC max input
ADC Corporation (ADCMT)	6581			2003								
	7480T			~2012								DCV, Ohms only
Transmille	8081		United Kingdom	2010			120000000 (8 sec)	3.9+0.6	0.8	0.015*		PLL Clock
	8080											8081 lite version
	8881											8080 lite version
ZIP-Nauchpribor	KM300		Russia	2008			102000000 (3.5 sec)	9+0.1	0.7		1.1	DMM with calibrator functions
PO “Impulse”	V2-41		Russia	1992	Discontinued	2S108S, 3×2S108R in oven at 75°C	250000000 (8 sec)	10+0.25	0.25		0.5	DVM with calibrator functions
	V2-41/1							6+0.2				
OJSC “NPK Rhythm”	V2-43		Russia	2005			25000000 (3 sec)	10+0.15	0.25		0.5	DMM with calibrator functions
	V2-43/1							5+0.15				
	V2-43			2010				4+0.2				
	V2-45	NO PHOTO		~2018								DMM with calibrator functions

* Measured value. ¹ Typical value. DCV – Uncertainty relative to calibration standards (1 year, T_{cal} ± 5°C, 10 VDC range). TC – Temperature coefficient.