

7000 10-Volt solid-state DC Voltage reference



Principales fonctions

- Self Contained 10-Volt DC Voltage Reference
- Reference Module Interchangeable with Nanoscan and Transref System
- 10-Volt and 1.018-Volt Outputs
- Low-Cost Entry Point into 10-Volt Metrology
- Suitable for Unpowered Shipment

Présentation du produit: 7000 10-Volt solid-state DC Voltage reference

10-Volt solid-state DC voltage reference

The heart of the Fluke 7000 Series is the fully isolated, compact 7001 solid state 10V and 1.018V direct Voltage standard. Designed to be robust and portable, its internal batteries support 'hot shipment and plug-in'. However, should complete power be lost at any time, patented Reference Conditioning technology over-comes reference device hysteresis and restores the last powered value to the module. The 7000 modules also feature patented DC-DC convertor technology, which achieves unparalleled isolation from the external AC-DC Line power adaptor. This makes the 7000 series particularly well suited to Josephson Junction direct comparison.

Spécifications: 7000 10-Volt solid-state DC Voltage reference

10V Output	
Stability	90 days (\pm ppm): 0.9 1 Year (\pm ppm): 1.8
Predictability	\pm 0.5ppm/year typical After 5 points, 3 mo. apart
Temperature Coefficient (15 - 35°C)	< 0.05 ppm
Noise (rms)	0.01 to 10Hz: < 0.10 ppm RMS Standard deviation of 90 day regression: < 0.10 ppm RMS
Hysteresis recovery	< 0.1 ppm (after conditioning cycle and baery discharge)
Output Current	12 mA
Output Resistance	< 10 mOhm
Baery	
Type	NiMH
Backup Period	16 hrs from fully charged
Recharge time (typical)	2 hours
Half Life	5 yrs
Environment	
Temperature	Operating: +15°C to 35°C Transit: -18°C to 45°C Warm-up period: 10 min. to \pm 0.1ppm of final output value
General Specifications	
Power, baery life	<1W
12V DC Connection	Yes
Dimensions	Dimensions (H x W x D) 137 x 85 x 290 mm (3.5 x 2.1 x 11.4 inch)
Weight	2.1kg (4.5Ibs)
Safety	UL3111, CE marked EN61010-1-1:1993/A2:1995 CETL

Modèles



7000

Référence de tension CC 10 volts (compatible avec les modèles 7001, 7004N/7010N et 7004T/7010T)

Soyez à la pointe du progrès avec Fluke.

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