

Datos técnicos

7000 10-Volt solid-state DC Voltage reference



Características principales

- 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

Descripción general del producto: 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.

Especificaciones: 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 |

Modelos



7000

Referencia de tensión CC de 10 voltios (compatible con los modelos 7001, 7004N/7010N y 7004T/7010T)

