

Keysight Technologies L4610A PRM-34B Radio Test Set

Functional Radio Test Set for
SINGARS Ground ICOM
Radio Sets

Reduced size and weight
Rugged, portable, and compatible
with existing solutions
Ease of use – true one-button
test solution
Complete solution for field
verification of SINGARS radios



Engineered for the tactical radio environment

In addition to meeting and exceeding the technical specifications of the AN/PRM-34, Keysight reduced the size (able to fit in the maintainer's cargo pocket), reduced the weight (16 oz with battery), and made it easier to use (one-button press enables all measurements automatically).

PRM-34B radio test set

Keysight designed the PRM-34B as a replacement to the AN/PRM-34. In addition to meeting or exceeding all of the AN/PRM-34 specifications, the size and weight was reduced making it extremely portable allowing the Radio Test Set to fit in the cargo pocket of the maintainer's uniform. These improvements were made while maintaining a rugged, weather-resistant design which enables reliable field operation. This new design also features easy one-button operation of all required Tx and Rx measurements while preserving the compatibility with existing AN/PRM-34 accessories. All existing AN/PRM-34 connectors, cables, and loads are compatible with the PRM-34B. The Radio Test Set is powered by a BA-5372/U battery which is currently in the military inventory and used with SINCGARS radios. These features set a new standard to make the PRM-34B an essential tool for all SINCGARS radio operators and maintainers.

Keysight L4610A PRM-34B radio test set specifications

Physical

L4610A PRM-34B
 Overall dimensions
 2.6 in. x 5.8 in. x 2.0 in. (W x L x D)
 67 mm x 147 mm x 51 mm
 Weight
 16 oz with battery (not included)
 0.45 kg

Weatherproof transit case
 Overall dimensions
 7.1 in. x 8.5 in. x 4.0 in. (W x L x D)
 180 mm x 216 mm x 102 mm
 Weight
 2.75 lbs. with radio test set and all provided accessories
 1.25 kg
 Operating temperature
 -20° to +55° C

Frequency measurements

Measurement range
 30 MHz to 88 MHz
 Level measurement range
 1.0 Watts to 50 Watts
 (Usable from 0.1 Watts to 50 Watts)
 Resolution
 1 KHz (count resolution is 0.1 KHz)
 Accuracy
 ±2 KHz at 88 MHz

Power measurements

Frequency measurement range
 30 MHz to 88 MHz
 Forward power measurement range
 1 Watt to 50 Watts (useable from 0.1 Watts)
 Forward power measurement accuracy
 ±20%
 Reverse power measurement range
 1 Watt to 50 Watts (useable from 0.1 Watts)
 Reverse power measurement accuracy
 ±20%
 RF Input protection
 60 Watts maximum input power

Sensitivity/squelch measurements

RF output frequency range
 30 MHz to 85 MHz @ 5 MHz intervals
 (Outputs at 30, 35 ... 80, 85 MHz)
 RF output level
 3 uV (-97.4 dBm)
 RF output level accuracy
 ±1 uV (-101 to -94.9 dBm)
 RF modulation
 FM composite signal with 900 and 150 Hz ±2 Hz audio tones
 FM deviation
 ≥3.5 KHz at 75 MHz

Key Features

- Reduced size and weight
 - 16 oz with battery (not included)
 - Easily fits in uniform cargo pocket
- Rugged, portable, and compatible with existing solutions
 - Engineered for the tactical radio environment
 - Powered by BA-5372/U battery which is currently used with SINCGARS radios (not included)
 - Compatible with all existing AN/PRM-34 connectors, cables, and loads
- Ease of use – true one-button test solution
 - Improved usability, one-button press
 - enables all Tx and Rx measurements automatically
 - Simplified test results are all displayed at the same time
 - Backlight display provides visibility in direct sunlight, shade, and darkness.

Complete solution for field verification of SINCGARS radios

- Weatherproof transit case is provided with the PRM-34B
- All cables are provided for testing SINCGARS radios

Internal self-test

Battery condition

Good indication	5.0 VDC to 6.0 VDC
Replace soon	4.5 VDC to 4.9 VDC
Replace now	3.5 VDC to 4.4 VDC

Power supply

Battery type
 BA-5372/U lithium-manganese dioxide battery (SINCGARS memory backup battery) (not included)
 Battery operation time
 >50 hours of continuous use

L4610A accessories provided

- (1) Weatherproof transit case
- (1) 36 in. BNC (m) to BNC (m) coax cable
- (1) Operating instructions

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