
Description of the 85629B

The 85629B Test and Adjustment Module (TAM) is an optional service accessory for the 856X High Performance Portable Spectrum Analyzers. The TAM enables you to test, troubleshoot, and adjust the spectrum analyzer more quickly and conveniently than you could by using standard test equipment and procedures. The TAM provides the following service functions:

Test	quickly verifies basic operation of the spectrum analyzer, using a minimum of external test equipment.
Adjust	provides fully automatic and user-guided adjustments.
Diagnose	allows fault isolation within the spectrum analyzer to the assembly level using automatic functions, or allows verification of a failed assembly and further isolation of the failure using manual-probe troubleshooting.

The TAM mounts on the right hand portion of the spectrum analyzer rear panel with a 1/4-turn fastener. It connects to the analyzer's electronics through a fixed connector. The TAM is typically installed on an analyzer only when the analyzer is to be tested, although it can be left in place if desired.

During testing with the TAM in place, the analyzer controls other instruments over GPIB, reads data, and formats data to assist you in interpreting the results. Use of the TAM yields fast, comprehensive data on the spectrum analyzer's performance. However, for full performance verification routines, refer to the spectrum analyzer installation manual; for complete troubleshooting and adjustment information, refer to the spectrum analyzer service manual.

Accessories for the 85629B

The following accessories are supplied with the TAM:

- **Extender Cable (part number 5062-0737):** allows use of the TAM when the A2 Controller assembly is in its service position, by extending the connector for the TAM from the rear panel to the A2 assembly.
- **Guided Probe (part number 5001-8743):** used to access numerous test connectors within the analyzer for rapid troubleshooting.
- **Service Board (part number 5021-7419):** a special circuit board that provides convenient connections for testing and adjusting the TAM. (The service board is shipped unassembled. Refer to Chapter 4 of this supplement for assembly information.)

Specifications and Characteristics

Specifications describe warranted TAM performance over the indicated temperature range. Characteristics provide useful information in the form of typical, nominal, or approximate values.

Specifications

The 85629B specifications are listed in Table 1-1. All specifications apply after the unit has reached a stable operating temperature.

Table 1-1. 85629B Specifications

Electrical Specifications	
DAC Accuracy -10 to +10 V dc	<±10 mV
ADC Accuracy -14 to +14 V dc	<±70 mV
General Specifications	
Environmental	When installed on an 856X High Performance Portable Spectrum Analyzer, the 85629B/856X system meets all environmental specifications as detailed in the spectrum analyzer installation manual.
Military Specifications	Per MIL T 28800, Type III, Class 3, Style C, as detailed in the spectrum analyzer installation manual.
Temperature	
Operating	-10°C to -55°C
Nonoperating	-62°C to -85°C
Humidity (operating)	95% at 40°C for 5 days

Characteristics

The 85629B characteristics are listed in Table 1-2.

Table 1-2. 85629B Characteristics

Weight	
Net	454 (1 lb)
Shipping	1.59 kg (3.5 lb)
Dimensions	
131.25 mm high × 91.25 mm wide × 37 mm deep (5.25 in. high × 3.65 in. wide × 1.48 in. deep)	

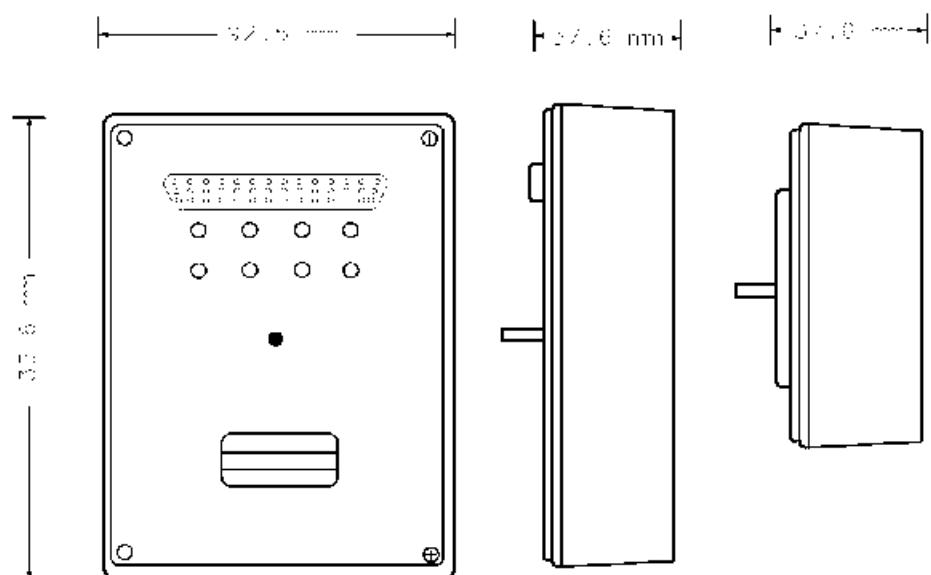


Figure 1-2. 85629B Dimensions