

Instructions



012-1568-00 and 012-1569-00
80E00 Series Sampling Module Extenders
071-0436-01

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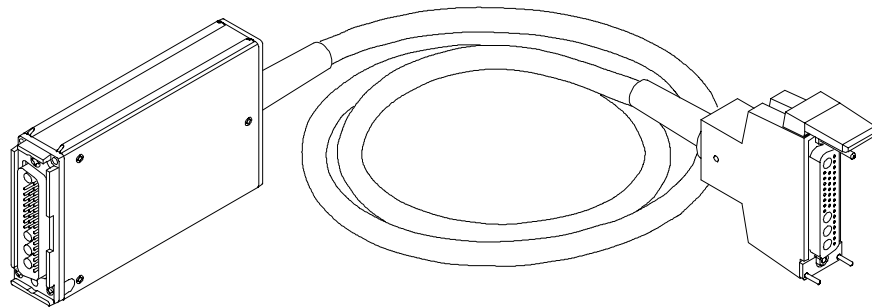
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Product Description

The Sampling Module Extender can be used to extend the reach of any 80E00 Series Sampling Module from the instrument in which it is installed. The extender is intended for use with the CSA8000 Communications Signal Analyzer or the TDS8000 Digital Sampling Oscilloscope. The extender is installed between the sampling module and the instrument, allowing the sampling module to be operated out of the module compartment in the instrument.

The term “extender” refers to either of the following two extenders, available in two lengths:

- 1 meter 012-1568-00
- 2 meter 012-1569-00



Why Use?

Use the extender to extend the sampling module out of its instrument compartment to reach the device under test. Using the extender avoids input-signal degradation that can occur when using interconnect cables between the sampling module and the device under test to extend reach.

Exclusions

Observe the following usage rules to avoid damaging your sampling modules or instruments:

- The extender can be used only with electrical sampling modules (80E00 series); it is not usable with optical modules (80C00 series).
- The extender can only be used with the CSA8000 or the TDS8000 instrument and its sampling modules; do NOT attempt to use this extender with an

11800 or a CSA800 series instrument. Instead, use the extender made solely for the 11800 and the CSA800 instrument.

- Also, do not attempt to use the extender cable that was made solely for the 11800 and CSA800 instrument with a CSA8000 or TDS8000 instrument or its sampling modules.

Compensation Requirement

You must run a compensation (accessed from the Utilities menu) whenever the extender configuration is changed from that present at the last compensation. In short, if you install or remove an 80E00 extender, run a compensation. If you exchange a extender for one of a different length, run a compensation. For instructions on running a compensation, see the *CSA8000 and TDS8000 User Manual*.

Operating Temperature Requirement

When you install one or more of the two-meter extenders, the operating temperature range of the instrument is reduced from +10 to +40 degrees C to +10 to +35 degrees C. The one-meter extender does not reduce the operating temperature range.

Horizontal Position

Inserting a sampling-module extender increases the minimum horizontal position settable by the instrument as follows:

- 1 meter: +5 ns
- 2 meter: +10 ns

NOTE. *Because horizontal position is a global setting, installing an extender with any sampling module increases the minimum horizontal position setting for waveforms acquired from all modules, extended or not.*

Installation Instructions



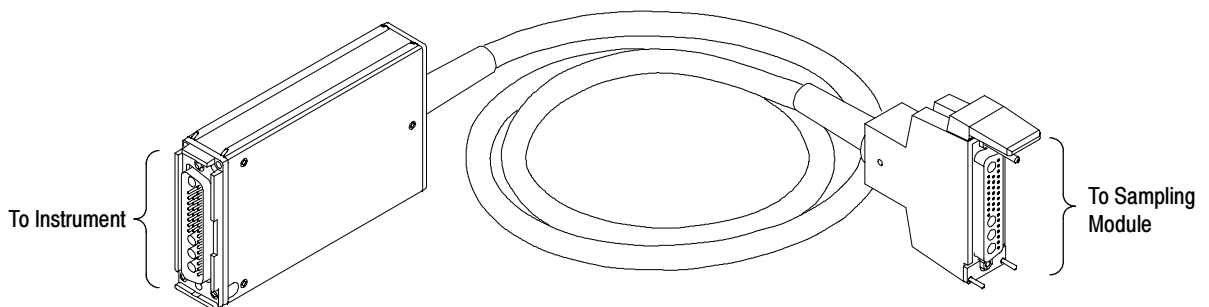
CAUTION. To prevent damage to the sampling module or instrument, never install or remove this extender from the instrument or from the sampling module when the instrument is powered on. Observe standard handling precautions for static-sensitive devices while installing this kit. Always wear a grounded wrist strap, grounded foot strap, and static resistant apparel while installing this kit.

Also when installing or using this product, observe all static precautions and warnings listed in the User manuals for the sampling module and main instrument.

NOTE. The sampling-module extenders are keyed to prevent their connection to any device other than 80E00 Electrical Sampling Modules and to prevent two or more extenders from being connected in series.

Perform the following steps to install the extender between the instrument and the electrical sampling module:

1. If the instrument is running, shut it down by pressing the On/Standby button on the front panel.
2. Install the connector labeled “To Instrument” into a suitable compartment in the instrument. See the sampling-module user manual if you require more information.



3. Use the connector marked “To Sampling Module” to connect to the sampling module. See the sampling-module user manual if you require information on connecting signals to the sampling module.

