

Specifications

Battery

Recommended Battery 9 V alkaline battery (NEDA 1604A)
Battery Life 10 hours, typical

Note:

Battery capacity is reduced below 0°C.
Battery shelf life is reduced when stored above 40°C.



WARNING

Do not attempt to recharge alkaline batteries, store batteries near a source of high heat, or discard batteries in fire. Doing so may cause the batteries to leak or explode.

AC Adapter

Output Voltage 9.0 Vdc \pm 5% (regulated for 0 to 100 mA)
Center Conductor Positive
Power Cord Input Connector 3 conductor, IEC 320 male type
Input Voltage Options 120 Vac @ 60 Hz, nominal or 220 or 240 Vac @ 50 Hz, nominal

Inputs

Connector Type Female BNC type
Input Impedance 1 M Ω , nominal
Input Voltage Range 1.0 to 16.75 volts

Outputs

Connector Type Female BNC type
Output Impedance 50 Ω , nominal
Minimum Resistive Load 10 k Ω
Maximum Cable Length 305 metres (1000 feet)
Frequency Response 0 to 10 kHz, -5%
Short Circuit Duration Indefinite

Temperature Range

Operating 0 to 50°C (32 to 122°F)
Storage -20 to 70°C (-4 to 158°F)

Relative Humidity

5 to 90% non-condensing (operating and storage)

Mechanical Specifications

Width 102 mm (4.0 in)
Length 191 mm (7.5 in)
Height 33 mm (1.3 in)
Weight 355 g (0.78 lb)

Ordering Information

990 Test Adapter Package

122115-01 Package includes: Test Adapter, 9V Battery, AC Adapter, Power Cord, User Guide, and Soft Carrying Case.

Spare Parts

01810700 Battery (9 volt alkaline)
02270056 AC Adapter (universal AC input to 9 volts)
02198937 Power Cord (for USA AC power outlet)
123133-01 User Guide
04160101 Soft Carrying Case

Accessories

123266-01 Coaxial Cable Kit (4 cables, 5 feet each)
02211505 Single Coaxial Cable (1 cable, 5 feet)



Part Number 123133-01
Revision NC

990 Test Adapter

User Guide

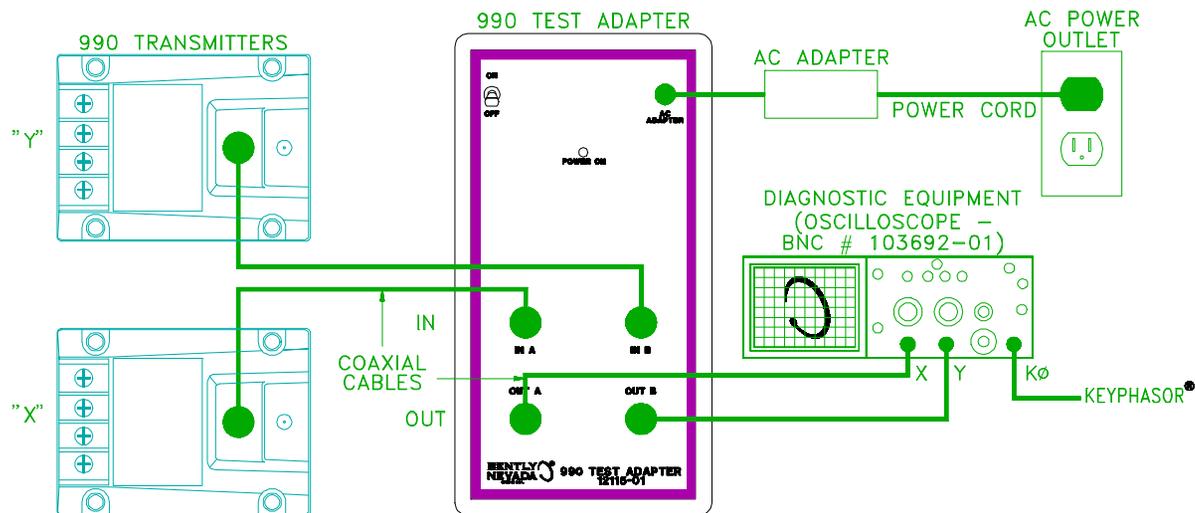
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The 990 Test Adapter inverts and isolates the PROX OUT signal from the 990 transmitter so you can connect 990 transmitters to diagnostic equipment. The adapter modifies the PROX OUT signal so that it matches the Bently Nevada standard for Proximito[®] signals by performing the following operations:

- shifts the phase of the PROX OUT signal by 180° and changes the voltage from positive to negative
- isolates the transmitter from diagnostic equipment so that grounded equipment will not affect the transmitter's 4-20 mA loop

The 990 Test Adapter includes the following features:

- small size and weight for portable operation
- battery or AC adapter power options
- auto shutoff circuit that powers the unit down when the battery is low
- two channels, so orbits can be displayed for XY probe configurations



Operation



WARNING

Contact with rotating machinery can cause severe injury.
Be careful. Keep safe distance.

Using Battery Power

Put on/off switch in the ON position. The POWER ON LED comes on to indicate that the test adapter is ready for use.

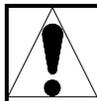
Using AC Adapter Power

Since the AC adapter is designed for universal AC input, configure the adapter for your AC power outlet. First, put the input voltage switch on the AC adapter in the correct position. Make sure that you have the appropriate power cord for your AC power outlet.

Connect the AC adapter to the AC ADAPTER jack and the AC power outlet as shown in the above figure. The POWER ON LED comes on to indicate that the test adapter is ready for use.

Connecting the Inputs and Outputs

Use coaxial cables as shown in the above figure. The test adapter can be connected to grounded, AC-powered test equipment (oscilloscope, DVF, ADRE®, etc.) or to battery-powered or ungrounded test equipment (portable signal analyzer, DMM, etc.).



CAUTION

Connecting the 990 Test Adapter to a continuous monitoring system could result in false alarms and/or incorrect monitor readings.

Troubleshooting

Problem Cause/Solution

POWER ON LED not lit when using battery power
On/off switch not in ON position.
Check switch.

AC adapter connected but not used.
Disconnect AC adapter.

Battery not connected properly.
Check battery connection.

Battery voltage too low.

Replace battery.

POWER ON LED not lit when using AC adapter power

Input voltage switch on AC adapter in wrong position.

Check input voltage switch.

AC adapter not connected properly.

Check connections at AC adapter jack, power cord input, and AC power outlet.

Output signal seems to be in error

Test adapter does not have power.

Check POWER ON LED.

Input or output cable not connected properly.

Check input and output connections.

990 Test Adapter not functioning correctly.

Run Verification Test.

Test and Verification

Required equipment: function generator, oscilloscope, and three coaxial cables.

1. Set the function generator for a 1 kHz sine wave with a 1 V pp amplitude and +6 Vdc offset.
2. Connect the function generator to the test adapter input using a coaxial cable.
3. Connect the oscilloscope to the test adapter input and output using coaxial cables.
4. Display both the input and output signals on the oscilloscope
5. Verify that the output signal is the mirror image of the input signal.

