

FIBER OPTIC TRANSMITTER

APPLICATION

The Narda Model 8747 Fiber Optic Transmitter is compatible with all 8700 Series probes and the Models 8718B, 8718 and Series 8717 meters. These meters have a built-in fiber optic receiver. This fiber optic system provides total isolation between meter and probe which is often needed when making low frequency measurements. At higher frequencies, it eliminates the conductive cable which can act as a scatterer when making measurements in an anechoic chamber. Under these conditions, it is desirable to have the operator and the meter outside the chamber, often several meters distant from the probe.



Model 8747 Fiberoptic Transmitter

DESCRIPTION

The Model 8747 Fiber Optic Transmitter contains a rechargeable battery that provides both internal power for its own circuitry plus power to operate the amplifier in the probe. The battery will operate the system for up to forty hours between charges. Controls are simple – a single three position toggle switch provides two calibration positions plus a normal operate position. Full system calibration is maintained with the probe and meter without the need to calibrate the specific components as a set thus maintaining system modularity. A five meter cable is included. Longer cables are available as options.

FIBER OPTIC CABLES

PART NUMBER	LENGTH
89696004	10 meters (32.8 ft)
89696005	20 meters (65.6 ft)
89696006	30 meters (98.4 ft)
89696007	45 meters (147.6 ft)

MODEL	8747-xx ^a
Additional Measurement Error	±3% (correctable to ±0.5%)
Connector	HP Versatile Link ^b
Cable Type	1.0/2.2 mm
Max. Distance	50m
Operating Temperature Range	-10°C to +70°C
Power Supply	Rechargeable 15V battery ^c
Operating Time	Up to 40 hours between charges
Transmitter Size	5.12" x 2.65" x 2.15" 13.00cm x 5.5cm x 4.0cm
Cable	5m

^a Specify the appropriate charger and power cord option

^b HP is a trademark of the Hewlett Packard Company

^c Dispose of properly

CONNECTING PROBE TO F.O. LINK

The new Model 8747 features a quick release connector that allows the new 8700 “D” series probes to connect directly. This connection provides all the support necessary for the probe. Older style 8700 probes may be connected via cable (adapter cable 21787700 required). The 8747 has a tapped hole to allow mounting on a tripod.

DIELECTRIC HANDLE (P/N 21732100)

An optional dielectric handle is available. The handle screws into the end of the fiberoptic transmitter in line axially with the probe. This allows the user to hold the 8747 and probe combination away from the body. The handle is approximately 18 in. (45 cm) long by 1.0 in. (2.5 cm) diameter.

ORDERING INFORMATION

To order a fiber optic transmitter, select the battery charger and line cord option and add it to the basic model number. See *Battery Charger and Line Cord Options*.