

# TFS-290 Series

## Optical Tracer Sources

- 1550 nm Operation with SC, FC, or ST Style Ports
- 2 kHz Modulation
- Temperature Stabilized Output
- Rugged Construction
- Long Battery Life with Quick-Charge Mode



### Overview

The TFS-290™ Series Optical Tracer Sources, when used with TFS-FS1™ Optical Leakage Detector, allow technicians to perform leak detection and long distance optical tracing. The sources provide the specific tone modulated light output required by the TFS-FS1 and some fiber identifiers.

### Leakage and Fiber Identification

The TFS-290 Series of tracer sources features a either a high power +5 dBm or very high power +15 dBm modulated output at 2kHz thereby allowing them to be used as tracer signal generators for use with the TFS-FS1 Optical Leakage Detector and most popular fiber identifiers. The optical tracer sources operate at 1550 nm with ST, SC & FC adapters.

These sources do not operate in CW (continuous wave) mode and may not be suitable for use in loss testing applications with some meters.

### Rugged Construction

The optical tracer sources are both specifically designed with the field technician in mind providing a long battery life and rugged construction that includes high impact rubber bumpers, weather resistant membrane switches, and a durable powder coat finish further protecting the tracer sources.

### Quick-Charging

The TFS-290™ Optical Tracer Source is powered by either four AA alkaline batteries or an AC/DC adapter with four AA NiMH batteries (both the adapter and NiMH batteries are included).

The TFS-291™ Optical Tracer Source is powered by six D alkaline batteries or an AC/DC adapter with six D NiMH batteries (both the adapter and NiMH batteries are included).

In addition to standard charge mode, the units feature an emergency quick-charge mode that allows the user to charge the batteries in approximately 1 hour.

# TFS-290 Series

## Optical Tracer Sources

### SPECIFICATIONS

<b>Emitter</b>	Laser
<b>Port Style</b>	ST, FC, SC, others available
<b>Fiber Size (MAX)</b>	100/140
<b>Wavelength</b>	1550 nm
<b>Power</b>	TFS-290: +5 dBm TFS-291: +15 dBm
<b>Modulation</b>	2 kHz
<b>Stability</b>	±0.1 dB/8hr typical
<b>Bandwidth</b>	5 nm
<b>Operating Temperature</b>	0°C to +50°C
<b>Storage Temperature</b>	-10°C to +60°C
<b>Humidity</b>	10% to 90%, non-condensing
<b>Power</b>	TFS-290: 4 x AA NiMH or Alkaline Batteries, 120 VAC / 60 Hz TFS-291: 6 x D NiMH Batteries, 120 VAC / 60 Hz
<b>Battery Life</b>	8-10 hours typical
<b>Charge Time</b>	Trickle Charge - 16 hours typical Quick Charge - 1 hour typical
<b>Physical Specification</b>	Size - 7" x 3.5" x 1.3" Weight - < 1lb.

### AVAILABLE OPTIONS:

TFS-290 Optical Tracer Source (High Power)  
**P/N 2011417000**

TFS-291 Optical Tracer Source (Very High Power)  
**P/N 2011417010**

### INCLUDES THE FOLLOWING:

Optical Tracer Source  
AC to DC Adapter/Charger  
Four (4) "AA" or "D" NiMH Rechargeable Batteries  
Operation Manual on CD

### RELATED PRODUCTS:

TFS-FS1 Optical Leakage Detector  
**P/N 2011390000**

TFS-FS1K505 Optical Leakage Detector Kit  
**P/N 2011391000**

TFS-FS1K555 Optical Leakage Detector Kit  
**P/N 2011391010**

TFS-FS1K557 Optical Leakage Detector Kit  
**P/N 2011391020**