

# TECHNICAL DATA SHEET



## LTS1315 Singlemode Loss Test Return Loss Test Set

The KD Optics LTS1315 is a combined laser source and power meter designed to make attenuation testing in the field easy, reliable and most importantly, consistent. To this end the source laser wavelength and the power meter wavelength are locked together to take out any wavelength measurement error. Ultra fast stabilisation of the lasers means that errors are less likely to be made due to laser stabilisation times. The unit incorporates a real time clock and 1000 location memory, so when a result is recorded, the date and time is stamped along with the loss insertion measurement (LIM), the measurement wavelength and the absolute power as well as an identification number. This result may be printed out on the optional printer or downloaded in 'spreadsheet format' directly to a PC. Additionally the unit features a unique facility enabling manual setting of the dBrel figure, eliminating the need in many cases for two units to be referenced back-to-back locally before a LIM can be made.

The LTS1315RL incorporates return loss measurement (RLM) capability with the ability to switch very easily between dBrel and return loss. Each unit has the option of a 635nm visible laser to make fibre tracing and near-end fault finding easy for the operator.



**Auto laser detection**

**Ultra fast laser stabilisation**

**Wide dynamic range**

**Auto / Manual dBrel setting**

**Internal real Time Clock**

**Visible laser option**

**Rugged and compact**

**1625nm option available**

**Output to a PC or printer**

## LTS1315(RL) Loss set Specifications

	LTS13	LTS15	LTS1315	LTS1315RL
Wavelength	1310nm	1550nm	1310 and 1550nm	1310 and 1550nm
Source type	Laser	Laser	Dual Laser	Dual Laser
Spectral Characteristics	1310 ±12nm	1550 ±12nm	1310 ±12nm 1550 ±12nm	1310 ±12nm 1550 ±12nm
Output Level	Typically -6dBm			Typically -2dBm
Return Loss	N/A			Up to 70dB
Optical Connector	Fixed FC/PC, ST, SC etc (Specified at time of ordering)			FC/APC (standard)
Spectral FWHM	Typically 3nm			
Output Waveform	CW or internal chopped at 1kHz or 2kHz (switch selectable)			
Output Stability	±0.05dB or less over 1 hour at 23°C			
Stabilisation Time	Typically 30 seconds from power up at 23°C			
Measurement Range	+10 to -70dBm, normal range; +20dBm to -60dBm, CATV range ('H' option)			
Measurement Wavelength	1310nm and 1550nm standard, 12 other wavelengths may be programmed			
Measurement Accuracy	±5% at -23dBm			
Measurement Resolution	0.01dB			
Visible output 'V' option	Laser 635nm, output power max. 0.85mW, (9/125, class 2) CW or Flash at 2 Hz, output connector: fixed FC/PC or ST			
Power requirements	Internal rechargeable with external charger (field unit); mains via IEC (bench unit)			
Temperature range	0 - 50°C			
Dimensions	250 x 227 x 78mm			

### Loss Set Ordering information

LTS13 1310nm Loss Set  
 LTS15 1550nm Loss Set  
 LTS1315 1310nm / 1550nm Loss Set

Add 'V' for Visible laser option  
 Add 'RL' for Return loss  
 Add 'H' for CATV range (+20dBm to -60dBm)  
 Add 'F' for flattened detector  
 e.g. LTS1315RL specifies a 1310nm and 1550nm  
 unit with return loss

### Loss Set Standard accessories

Manual  
 One connector adapter  
 Carrying case  
 Mains IEC input  
 One year warranty

### Loss Set Optional accessories

Spare AC charger  
 Bare fibre adapters  
 Test cables, patch cords etc.  
 Additional connector adapter

### Other Products available from KD Optics:

Single and Multimode Power meters  
 Laser and LED sources  
 Loss Test Sets  
 Optical attenuators  
 Optical Talk sets  
 Cooled laser sources  
 Optical data logging and Device alignment test sets  
 Thermo Electric Cooler (TEC) controllers

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