



CKM-2 Contractor Series Multimode Test Kit with Set Reference

Combining the CSM1-2 optical power meter and CSS1-MM Dual LED light source, the CKM-2 is a cost-effective test kit designed for performing insertion loss measurements on multimode fiber optic links.

The CSS1-MM Dual light source features 850 nm and 1300 nm LED output from a single output port and offers 2 modes of operation, continuous wave (CW) and user selectable modulated Tone. The LED output is stabilized to ensure accurate test results per current TIA/EIA requirements and equipped with a fixed SC connector. An easy to read LCD display with Backlight shows emitted wavelengths [nm], tone frequency [Hz], and Low battery condition.

The CSM1-2 optical power meter operates at 850/ 1300/ 1310/ 1550 nm and features multiple test Tone detection for fiber identification. The CSM1-2 stores optical references for each calibrated wavelength. An easy to read LCD display with Backlight shows measured power [dBm or μ W] or insertion loss [dB], calibrated wavelengths, tone frequency [Hz], and Low battery condition. The CSM1 optical input port accepts Noyes thread-on style adapter caps. One adapter cap, 2.5 mm Universal, is included. A variety of Noyes thread-on style adapter caps (FC, SC, LC, etc.) may be ordered separately.

Weighing only 0.4 lb each, both units are compact and convenient for field use. The CSS1-MM Dual LED light source, and CSM1-2 optical power meter are fully N.I.S.T. traceable.

Features

- Palm-sized, rugged, lightweight
- Certify multimode fiber links per TIA/EIA standards
- CW and modulated Tone
- 270, 330, 1000, and 2000 Hz supported Tone
- Power measurements in dBm or μ W; insertion loss in dB
- Reference power level storage
- Large LCD with Backlight
- AA alkaline, optional NiMH or NiCd
- Automatic power-off function
- Battery Gauge
- Free 50 μ m and 62.5 μ m mandrels
- Cost-effective, easy to use
- N.I.S.T traceable

Ordering Information

Model	Includes
CKM-2	CSS1-MM dual optical light source, CSM1-2 optical power meter, AA batteries, 2.5 mm Universal adapter cap, 50 and 62.5 μ m mandrels, user's guide, and carry case.

Test jumpers and connector adapters are required for operation (purchased separately). Test jumpers with a variety of connector styles and fiber types and adapter caps for most common connectors may be purchased from AFL Telecommunications.

The CKM-2 kits may be packed with one of cleaning kit options (purchased separately) as follows:

Model	Description	Includes
8500-20-0900	Wet Cleaning Kit	8500-10-0016, Cletop -SB CCTS-25-0900, Connector Cleaning Tips for 2.5mm ferrule in adapters or sockets (SC, FC, ST in adapters). Blue (40 sticks per tube). Qty = 2 tubes FCC2-00-0900, Optical Quality Cleaning Fluid for fiber connector end faces.
8500-20-0901	Dry Cleaning Kit	8500-10-0016, Cletop -SB 8500-10-0024 ACT-01 2.5mm adapter cleaning tips – Qty = 200



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CSS1-MM Specifications

Optical	CSS1-MM (single port)	
Output wavelength (nm)	850 nm \pm 20 nm	1300 nm +40/-60 nm
Spectral width (max)	35 nm	170 nm
Output power	\geq -20.0 dBm into 62.5/125 fiber	
Laser classification	Class 1 (IEC 60825 - 1)	
Stability	\pm 0.1 dB over 1 hour (after 30 sec typically) \pm 0.15 dB over 8 hours (after 30 sec typically)	
General		
Display type	Liquid Crystal Display w/LED Backlight	
Power	2 x AA batteries, optional NiMH or NiCd	
Battery life	30 hours typical (with 2 x AA Alkaline)	
Output connector	SC	
Operating temperature	-10 to 50°C, 90% RH (non-condensing)	
Storage temperature	-30 to 60°C, 90% RH (non-condensing)	
Size (H x W x D)	4.2 x 2.5 x 1.25 in (10.7 x 6.4 x 3.2 sm)	
Weight	0.4 lb (0.18 kg)	

All specifications at 25°C.

CSM1-2 Specifications

Optical	CSM1-2
Calibrated wavelengths	850, 1300, 1310, 1550 nm
Detector type	Germanium (Ge)
Measurement range	+6 to -60 dBm
Tone detect range	+6 to -50 dBm +6 to -45 dBm for 850 nm
Accuracy	\pm 0.3 dB*
Resolution	0.01 dB
Measurement units	dB, dBm, μ W
General	
Display Type	Liquid Crystal Display w/LED Backlight
Fiber Type	Single-mode/ Multimode
Power	2 x AA batteries, optional NiMH or NiCd
Battery life	> 300 hours (with 2 x AA Alkaline)
Operating temperature	-10 to 50°C, 90% RH (non-condensing)
Storage temperature	-30 to 60°C, 90% RH (non-condensing)
Size (H x W x D)	4.2 x 2.5 x 1.25 in (10.7 x 6.4 x 3.2 sm)
Weight	0.4 lb (0.18 kg)

*Accuracy measured at 25°C and -10 dBm per N.I.S.T. standards.

All specifications at 25°C

