NOYES®
CKSM-2 Contractor Series MM/SM Test Kit with Set Reference

Features

- Palm-sized, rugged, lightweight
- CW and modulated Tone
- 270, 330, 1000, and 2000 Hz Tone
- Power measurements in dBm or µW; insertion loss in dB
- Reference power level storage
- Large LCD with backlight
- Automatic power-off function
- Battery gauge
- Long battery life with AA alkaline
- Free 50 µm and 62.5 µm mandrels
- Cost-effective, easy to use
- N.I.S.T traceable

Applications

- Certify multimode and single-mode fiber links per TIA/EIA standards
- Fiber identification prior to splicing

Combining the CSM1-2 optical power meter, CSS1-MM Dual LED light source, and CSS1-SM Dual LASER source, the CKSM-2 is a cost-effective test kit designed for performing insertion loss measurements on multimode as well as single-mode fiber optic links. Weighing only 0.4 lb each, units are compact and convenient for field use.

The CSS1-MM and CSS1-SM sources feature Dual output, 850/1300 nm LED or 1310/1550 nm LASER respectively, from a single output port. Both CSS1 models offer 2 modes of operation, continuous wave (CW) and user selectable modulated Tone. The CSS1-MM LED and CSS1-SM LASER output ports are stabilized to ensure accurate test results per current TIA/EIA requirements.A large LCD display with backlight shows emitted wavelengths [nm], tone frequency [Hz], and indicates a low battery condition. The CSS1-MM model output port is equipped with a fixed SC connector while the CSS1-SM output port is equipped with Universal Connector Interface (UCI) base and SC adapter.

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. A large LCD display with backlight shows measured power [dBm or µW] or insertion loss [dB], calibrated wavelengths [nm], tone frequency [Hz], and indicates a low battery condition. The CSM1 optical input port accepts a variety of Noyes thread-on style adapter caps (ordered separately) to meet a wide range of testing requirements. One adapter cap, 2.5mm Universal, is included.

The CSS1-MM, CSS1-SM, and CSM1-2 are fully N.I.S.T. traceable.

Ordering Information

INCLUDES	AFL NO.
CSS1-MM Dual LED source, CSS1-SM Dual Laser souce, CSM1-2 optical power meter, AA batteries, 2.5mm universal adapter cap, UCI-SC connector, 50 and 62.5µm mandrels, user's guide, and carry case.	CKSM-2

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 CKSM kits may be packed with one of cleaning kit options (purchased separately) as follows:

DESCRIPTION	INCLUDES	AFL NO.
Wet Cleaning Kit	8500-10-0016, Cletop -SB	8500-20-0900
	CCTS-25-0900, Connector Cleaning Tips for 2.5mm ferrule in adapters or sockets (SC, FC, ST in adaptors).Blue (40 sticks per tube). Qty = 2 tubes	
	FCC2-00-0900, Optical Quality Cleaning Fluid for fiber connector end faces.	
Dry Cleaning Kit	8500-10-0016, Cletop -SB 8500-10-0024 ACT-01 2.5mm adapter cleaning tips – Qty = 200	8500-20-0901

NOYES®
CKSM-2 Contractor Series MM/SM Test Kit with Set Reference

CSS1-SM Specifications [a]

OPTICAL	CSS1-SM (SINGLE PORT)
Output Wavelength	1310 nm ±20 nm, 1550 nm ±20 nm
Spectral Width (max)	5 nm
Output Power	⩾0.0 dBm into 9/125 fiber
Emitter Type	Laser, Class I FDA 21 CFR 1040.10 and 1040.11, IEC 60825-1: 2007-03
Output Stability	±0.05 dB typical over 1 hour (after 30 sec.) ±0.15 dB over 8 hours (after 30 sec. typically)
Tone Output	270, 330, 1000, 2000 Hz
GENERAL	
Output Connector	SC, FC, ST, LC
Power	2 x AA batteries
Battery Life	75 hours typical
Operating Temperature	-10 °C to 50 °C, 90 % RH (non-condensing)
Storage Temperature	-30 °C to 60 °C, 90 % RH (non-condensing)
Size (H x W x D)	11.4 x 6.4 x 3.2 cm (4.5 x 2.5 x 1.3 in)
Weight	0.18 kg (0.4 lb)

CSS1-MM Specifications [a]

OPTICAL	CSS1-MM (SINGLE PORT)	
Output Wavelength	850 nm ±20 nm	1300 nm +40/-60 nm
Spectral Width (max)	35 nm	170 nm
Output Power	⩾ -20.0 dBm into 62.5/125 fiber	
Emitter Type	LED, Class I FDA 21 CFR 1040.10 and 1040.11, IEC 60825-1: 2007-03	
Output Stability	±0.1 dB over 1 hour (after 30 sec typically) ±0.15 dB over 8 hours (after 30 sec typically)	
Tone Output	270, 330, 1000, 2000 Hz	
GENERAL		
Output Connector	SC	
Power	2 x AA batteries	
Battery Life	30 hours typical	
Operating Temperature	-10 °C to 50 °C, 90 % RH (non-condensing)	
Storage Temperature	-30 °C to 60 °C, 90 % RH (non-condensing)	
Size (H x W x D)	11.4 x 6.4 x 3.2 cm (4.5 x 2.5 x 1.3 in)	
Weight	0.18 kg (0.4 lb)	

CSM1-2 Specifications [a]

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 [b]	±0.3 dB
Resolution	0.01 dB
Measurement Units	dB, dBm, µW
GENERAL	
Power	2 x AA batteries
Battery Life	>300 hours
Operating Temperature	-10 °C to 50 °C, 90 % RH (non-condensing)
Storage Temperature	-30 °C to 60 °C, 90 % RH (non-condensing)
Size (H x W x D)	11.4 x 6.4 x 3.2 cm (4.5 x 2.5 x 1.3 in)
Weight	0.18 kg (0.4 lb)

Notes:

a. All specifications at 25 °C.

b. Accuracy measured at 25 ºC and -10 dBm per N.I.S.T. standards.

Authorized Channel Partner

NOYES®

United States
Customer Service
1.800.321.5298
1.603.528.7780
www.AFLglobal.com

Europe, Middle East, Africa
Max Penfold
Max.Penfold@AFLglobal.com
+44 1799 542 840
+44 7802 839 160

Middle East
Ahmed El Sakaty
Ahmed.ElSakaty@AFLglobal.com
+20 106 451 523

Africa (Sub Sahara)
Nicholas Cole
Nicholas.Cole@AFLglobal.com
+44 7702 005 590

Greater China
Dai Liu
Dai.Liu@AFLglobal.com
+86 133 1101 4533

Asia-Pacific (non-China)
Saw Biing Huei
Biing.Saw@AFLglobal.com
+65 9791 3398