



## CSM1 Contractor Series Optical Power Meter

The Noyes CSM1 from AFL Telecommunications is a palm-sized, cost-effective optical power meter designed for measuring optical power in Premises, Telco, or Broadband fiber optic networks and for performing insertion loss measurements on multimode or single-mode fiber optic links. Weighing only 0.4 lb, this power meter is ideal for field use.

The CSM1 stores optical references for each calibrated wavelength and features multiple test Tone detection for fiber identification. A large LCD display with backlight shows measured power [dBm or  $\mu$ W] 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.

Being powered by two AA alkaline, the CSM1 offers a five-minute auto-off feature and over 300 hours of operation with backlight off.

The CSM1 is fully N.I.S.T. traceable.

### Features

- Palm-sized, rugged, lightweight
- Multimode or single-mode applications
- 270, 330, 1000, 2000 Hz Tone detection
- Large LCD with backlight
- Power measurements in dBm or  $\mu$ W; insertion loss in dB
- Reference power level storage
- Automatic power-off function
- Battery gauge
- Long battery life with 2 x AA alkaline
- Cost-effective, easy to use
- N.I.S.T traceable

### Application

- Premises (Ge), Telco (InGaAs), and Broadband (+26 dBm) models
- Passive Optical Networks (PON) testing

### Specifications

OPTICAL	CSM1-1	CSM1-2	CSM1-3	CSM1-4
Calibrated wavelengths	660, 780, 850 nm	850, 1300, 1310, 1550 nm	850, 1300, 1310, 1490, 1550, 1625 nm	850, 980, 1310, 1490, 1550, 1625 nm
Detector type	Silicon (Si)	Germanium (Ge)	InGaAs	Filtered InGaAs
Measurement range	+6 to -70 dBm	+6 to -60 dBm	+6 to -70 dBm	+26 to -50 dBm
Tone detect range	+6 to -45 dBm	+6 to -50 dBm +6 to -45 dBm for 850 nm		+6 to -30 dBm +6 to -25 dBm for 850 nm
Accuracy*	± 0.3 dB			
Resolution	0.01 dB			
Measurement units	dB, dBm, $\mu$ W			
<b>GENERAL</b>				
Power	2 x AA batteries			
Battery life	> 300 hours			
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)	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)			

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

### Ordering Information

MODEL	INCLUDES
All CSM1 models	2.5mm Universal adapter cap, 2 x AA batteries, user's guide, and carry case.



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Specifications and descriptions are subject to change without prior notice.