SLM SERIES STEREO LOUDNESS METERS

The SLM series loudness meters are portable desktop units that display the average (VU) and peak content of an audio signal simultaneously. The meter includes a pair of "sticky" peak LEDs (for each stereo pair) that may be set to display peaks that exceed a preset limit, a phase correlation meter and status LEDs to display lock to signal or error.

The SLM meters are available in models that may be used to monitor either analog or AES digital audio signals. The meter packages that are offered includes the SLM1 a stereo meter pair, the SLM2 a dual stereo meter pair and the SLM4 a quad stereo meter pair. Each stereo pair in the SLM1 and SLM2 has its' own seven segment LED phase indicator. The SLM4 has an expanded (28 segment) LED phase indicator that may selectively be assigned to any one of the four meter pairs. SLM meters may be ordered as "A" versions for analog audio or "D" versions for AES audio, specify requirement for balanced (110 Ohm) or unbalanced (75 Ohm) AES digital audio inputs.

Analog Audio Versions

1) SLM-1A Stereo Loudness Meter - 1 Stereo analog audio input

2) SLM-2A Stereo Loudness Meter - 2 Stereo analog audio inputs

3) SLM-4A Stereo Loudness Meter - 4 Stereo analog audio inputs

AES/EBU Digital Audio Versions

1) SLM-1D Stereo Loudness Meter - 1 AES/EBU Digital audio input

2) SLM-2D Stereo Loudness Meter - 2 AES/EBU Digital audio inputs

3) SLM-4D Stereo Loudness Meter - 2 AES/EBU Digital audio inputs

Each stereo bargraph indicator comprises a dual set of 41 LEDs with VU and PPM activity areas clearly defined. The units are mounted in a table top swivel stand for vertical viewing. The SLM meters are powered by a 6 Volt AC adapter.

A rear panel dip switch array allows for configuration of various parameters such as meter ballistics and calibration levels of the SLM meters, please refer to the DIP SWITCH SETTINGS table in this manual. Connections to the SLM meters are made via pluggable 3pin screw terminals when connecting analog or balanced AES signals or via BNC connectors when connecting unbalanced AES signals. If a viable AES signal is connected to the SLM the "LOCK" status LED will illuminate. If the signal is lost or corrupted the "ERROR" status LED will illuminate For more information and special applications please consult the factory.

SLM DIP SWITCH SETTINGS

| | <u>On</u> | <u>OFF</u> |
|---------------|--|--|
| Ballistics 1 | Peak Hold Off Peak H | lold On |
| Ballistics 0 | PPM Type 2 | PPM Type 1 |
| Calibration 1 | See Table 2 | |
| Calibration 0 | See Table 2 | |
| | Ballistics 1 Ballistics 0 Calibration 1 Calibration 0 | OnBallistics 1Peak Hold Off Peak HBallistics 0PPM Type 2Calibration 1See Table 2Calibration 0See Table 2 |

Ballistics

PPM Type 1= 1.5 Second/24dB decay. PPM Type 2= 3.0 Second/24dB decay. Peak Hold - This feature holds 'PPM' peaks above 'nominal' for 3 seconds. Peak LED - This LED holds instantaneous peaks above -3dB for 3 seconds.

_____ Calibration 1 Calibration 0 Nominal Level On On -20dBFS/+4dBu 0 Off -18dBFS/+4dBu 1 On 2 On Off -16dBFS/+4dBu 3 Off Off -14dBFS/+4dBu

SPECIFICATIONS

ANALOG AUDIO

Meter Calibration Input Impedance Input Level Frequency Response Peak Hold Indicator Threshold Output Level Dynamic Range 0VU = +4 dBu (or specify when ordering) >20kO balanced +24dBu max +/- 0.25 dB, 20 Hz to 20 kHz +21 dBu +22dBu max 90dB

DIGITAL AUDIO

Meter Calibration Input Standard

Input Level Sampling Frequency Range Frequency Response Peak Hold Indicator Threshold

GENERAL

AC Adaptor

0.2-5V p-p 30kHz to 96kHz +/- 0.25 dB, 20 Hz to 20 kHz -3 dB below Full Scale

AES/EBU 1100 transformer balanced screw terminal

0VU = -20 dBFS (default, configurable with DIP SWITCHES)

6 Volts, 2 Amperes

or 750 unbalanced BNC

Ward-Beck Systems Ltd. reserves the right to change performance specifications without prior notice.