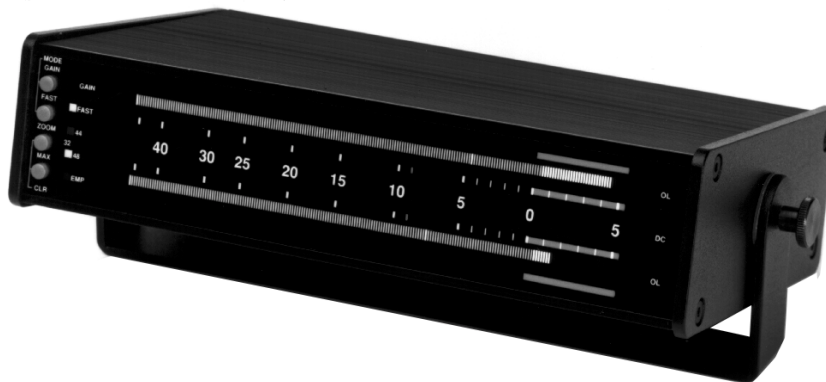


Analog Stereo Peak Programme Meter The 478-100 family



Features:

- Peak Program Meter for Analogue Audio
- High resolution 200 segment orange bar-graph display
- Simultaneous reading of peak values with normal and fast ("zero") integration time
- Built-in 3 colour LED Compatibility Meter (optional)
- Instantaneous LED overload indication with adjustable threshold
- Zoom function for increased display resolution
- Easy selectable reference level
- Memory for maximum peak storage.
- Various display modes for improved readability
- Additional 20 dB gain for monitoring of "noise floor"
- Panel mounting or Table-Top with Mains net adaptor



General Description.

The meter types 478-series of audio level measuring instruments is member of a family of instruments designed to take heritage of the previous series of the 477-series PPM's.

The prime function of the meter is to measure peak level of an analogue audio signal. The use of a high quality, 24 bit AD converter and digital signal processing assures uncompromising accuracy and stability.

Based upon one of today's most powerful DSP's it offers all of its predecessors appreciated qualities like a bright, high definition bargraph display with a multitude of display modes.

It facilitates both measurements with 10/5ms integration time in accordance with IEC 268-10 and measurements with "zero" integration time.

Additionally a spot indication may be superimposed on the normal reading, indicating the absolute level with reference to digital FS. This enables the sound engineer, working in a mixed analogue and digital environment, to make a direct comparison between signals. Numerous other display functions are available including peak hold, memory, zoom, and an optional compatibility / phase meter.

The instrument is housed in a ruggedized aluminium cabinet with a high contrast, non glare scale.

Analogue Stereo Peak Programme Meter

Technical Specifications:

Supply voltage20 - 32 V dc
 Current consumption, @ 24V supply.....180 mA typ. (max. 250 mA)
 Temperature range0 to 45°C ambient temperature.

Signal input:

Frequency range, 0,5dB20Hz to 20kHz
 High frequency roll-off≥12dB/oct. above 20kHz
 Input impedance20kΩ ±10% balanced floating
 Input CMRR.....>60dB at 15kHz
 Reference input voltage.....-10dBu to +21dBu, selectable
 Factory setting, DIN/NOR type1,55V rms sine(+6dBu)
 Factory setting, BBC type1,94V rms sine(+8dBu)
 Input overload level.....+21dBu
 Dynamic measuring range.....>60 dB

Measuring errors, PPM	at +10 to -10dB	at -10 to 40dB
1kHz steady signal	<±0,2dB	<±1dB
Within the frequency range	<+0,5dB/-1dB	<+0,5dB/-1dB
Polarity shift of unsymmetrical wave.....	<±0,3dB	<±1dB
Tracking between channels	<±0,2dB	<±0,5dB
10% change of supply voltage	<±0,2dB	<±0,2dB

Integration Time

Normal integration timeAccording to DIN45406 & IEC 268-10
 Fast integration time....."zero"

Fallback time

DIN type.....1,5sec from 0 to -20dB, "Zeit linear"
 NOR type1,5sec/20dB
 BBC type.....3 sec/24dB ("7" to "1")

Additional gain

20dB additional gain error<±0,2dB (Nordic scale: 40dB additional gain error<±0,5dB)

Overload Indicator

Overload threshold range (adjustable from the front)-10dB to +10dB
 Response timesame as fast integration time ("zero")
 NB! The overload function is disabled when additional gain is active

Phase indication

Input level range.....Approx -30dB to +10 dB
 Phase range/resolution0 to 180°/18°

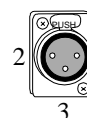
Remote Control

All functions, accesible through push buttons on the front , can be controlled remotely. Rather than running individual wires to each remote switch only a single pair is used for all remote switches. The actual function of each switch is then being determined by the value of a resistor in series with the switch. If the required reference levels (PPM or Loudness) differ from factory setting, they can be controlled remotely in the same manner.

The 478 meter series of instruments is a highly modular design. Cabinets are available for panel mount or for table top use.

Terminal connections (XLR connectors):

Connections are via two XLR A3F connectors



Chassis/screen	1
Input (a)	2
Input (b)	3

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