Stereo Digital
Peak Programme Meter
The 477-family

Features:
- Peak Program Meter for Digital Audio.
- Advanced Dual-Mode Display, combining:
  BAR: Reading similar to traditional Analog PPMs
  Referring to a "normal operating level"
  10 msec integration time
  SPOT: True digital peak-reading
  "Zero" integration time
- Built-in three color LED compatibility meter. (option)
- Reference level selectable from 0 to 31 dB below max. digital code by DIP switch.
- Selectable "freezing" of Spot for peak-hold indication.
- Built-in 0.3 Hz Highpass filter for DC-blocking and LED DC warning indication for LF-component levels of more than -30 dB FS.
- Individual overload indicators with selectable trigger criterias: 1, 4, 8 and 16 consecutive samples.
- Additional gain function for monitoring of low level signals.
- Resetable memory for storing of maximum reading.
- 32/44.1/48 kHz sampling-rate and pre-emphasis indicators.

General Description.
These instruments combine both the "absolute" (digital zero) and "analogue PPM" scales in one unit, which adheres to IEC 268-10 standards. This enables a sound engineer, working in a mixed analogue and digital environment, to make a direct comparison between signals. Various functions are available including peak hold, memory, zoom, fast integration time, and a compatibility / phasemeter.

Technical Specifications:
Supply voltage .............................................................. 20-32 V DC
Current consumption, @ 24V supply .................................. 140 mA typ. (max. 200 mA)

Signal input:
Input type .............................................................................. Serial digital audio interface (IEC 958)
Input impedance ................................................................. High impedance, floating, (Zi > 1 kΩ)
Minimum input signal ....................................................... Vmin = 200 mV, Tmin = 0.5 x Tnom (IEC 958)
Sampling rates ................................................................. 48 kHz, 44.1 kHz and 32 kHz

Measuring characteristics:
Main reading (bargraph):
Integration time .............................................................. 5/10 ms (IEC 268-10, 1991-03)
Return time ................................................................. 1.7 s (0 to - 20 dB) (IEC 268-10, 1991-03)
Reference level .............................................................. selectable 0 to 31 dB below max. digital code.
Overload indication .......................................................... The bar intensity is increased within overload range.
Low frequency cut-off ................................................... DC-blocking; Cut-off frequency <0.3 Hz

Secondary reading (spot):
Integration time .............................................................. "zero"
Return time ................................................................. 1.7 s (0 to - 20 dB) (IEC 268-10, 1991-03).
Scale max. ................................................................. Scale max. equals the lower limit of intensified bar range.
Reference level .............................................................. Scale max. corresponds to max. digital code level.

Phase indication:(optional) ......................................................... 0 to 180°. - Resolution: 18°.
Stereo Digital Peak Programme Meter

Additional functions:
Gain: Additional 20 dB gain selectable on front.
Mode: The Bar-Graph display can be operated in various modes.
Memory: A peak memory is provided. Reset is controlled from a push-button on the front.
Zoom: To enable extremely accurate reading around "0 dB", the scale may be expanded by a factor of 10.

LED Indicators:
Flashing LEDs on top of each bar for instantaneous digital overload.
Excessive DC-content in either channel.
Gain, when selected.
Sampling rate and preemphasis, if present.

Select the PPM which fits your needs:

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<thead>
<tr>
<th>Type</th>
<th>Panel-mount</th>
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<th>Tuchel¹</th>
<th>XLR²</th>
<th>Phase meter</th>
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Notes:
1) The types equipped with Tuchel connector has been designed with high input impedance to allow for paralleled (daisy-chain) connection. If used without other line termination a termination resistor (75 Ω or 110 Ω) must be mounted on the mating connector.
2) External Mains adapter included.

All types are available in both horizontal and vertical

Mechanical outline, for the panel-mount version with Tuchel connector:

Terminal connections (Tuchel connector):
Connections are done via a 23 pole Amphenol Tuchel type T-2700 connector, male.
The mating part is T-2701, and is not included with the instrument.

Your local Distributor:

Terminal connections (XLR-connectors):
Connection is via one XLR A3F connector and one XLR A3M connector for loop-through.

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