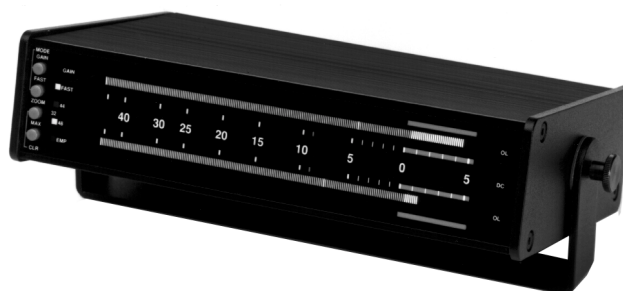
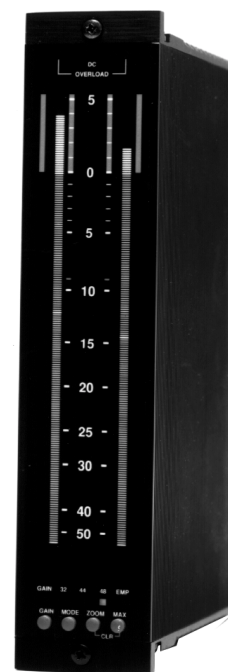


Stereo Digital Peak Programme Meter The 477-family



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, ($Z_i > 1 \text{ k}\Omega$)
 Minimum input signal..... $V_{min} = 200 \text{ mV}$, $T_{min} = 0.5 \times T_{nom}$ (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 $< 0.3 \text{ Hz}$

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:

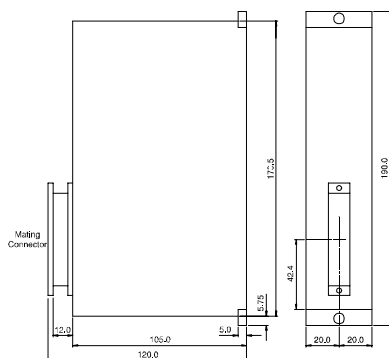
Type	Panel-mount	Table Top	Tuchel ¹	XLR ²	Phase meter
477-400	✓		✓		✓
477-420	✓			✓	✓
477-450		✓		✓	✓
477-500	✓		✓		
477-520	✓			✓	
477-550		✓		✓	

Notes:

- 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.
- External Mains adapter included.

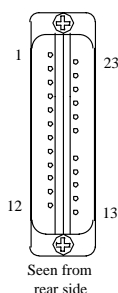
All types are available in both horizontal and vertical

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



Terminal connections (Tuchel connector):

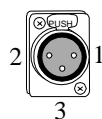
Connections is done via a 23 pole Amphenol Tuchel type T-2700 connector, male. The mating part is T-2701, and is not included with the instrument.



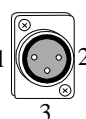
Not to be used	1	23	+Vcc
Not to be used	2	22	N.C.
N.C.	3	21	Not to be used
N.C.	4	20	N.C.
Ref. level	5	19	MAX, remote control
Ref. level	6	18	CLR, remote control
Ref. level	7	17	ZOOM, remote control
Ref. level	8	16	GAIN, remote control
Input Screen	9	15	MODE, remote control
Input Screen	10	14	Digital Input Signal +
Digital Input Signal -	11	13	Chassis
-Vcc	12		

Terminal connections (XLR-connectors):

Connection is via one XLR A3F connector and one XLR A3M connector for loop-through.



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



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

Your local Distributor:



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