177-8010-B-4

NTP

BAR GRAPH

PEAK PROGRAMME METER

177-800B

Contents:

1/19920901

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NTP ELEKTRONIK A/S

BAR GRAPH / PEAK PROGRAMME METER 177-800

TECHNICAL SPECIFICATIONS

177-8011-B-4

Supply voltage	variable 22-32V
Max. ripple voltage	0.1Vpp
Current consumption	appr. 200mA at 24V
Temperature range	0 to +45° amb.temp.
Frequency range	20Hz to 16kHz
Input impedance in freq.range	20kOhm +/-15% symmetricel 1)
Input voltage for 0dB (05dB) reading	1.55Vrms sine (+6dBu)
Input overload level	8.6Vrms sine (+21dBu)
Dynamic measuring range	55dB

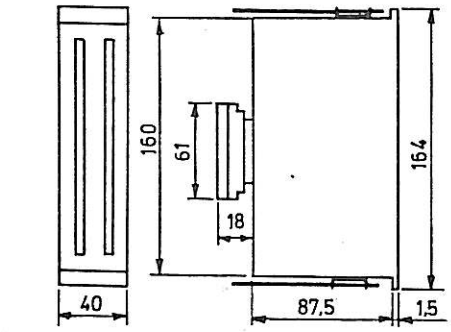
Measuring errors	+5 to -10dB	below -10dB
1kHz steady signal, 25°C	+/- 0.5dB	+/- 1dB
within freq.range, 25°C	+ 0.5/-1dB	+0.5/-2dB
within temp.range, 1kHz	+/- 1 dB	+/- 2dB
polarity shift of asymmetrical wave	0.5dB	1dB
10% change of supply voltage	0.2dB	0.2dB

Tracking between channels	0.5dB
Integration time	10mS for -1dB +0.5dB
conforming to DIN 45406	5mS for -2dB +/-1dB
and IEC proposal of September 1970	3ms for -4dB +/-1dB
	0.4ms for -15dB +2dB
Fall-back time (adjustable)	0 - -20dB : 1.5 secs.
	0 - -40dB : 2.5 secs. +/- 0.1
Overload indication	a six times increase of the light intensity
Scale length	127 mm
Number of elements per channel	101
Colour	neon orange
Standard scales:	+5 to -50dB DIN
All types are available	+9 to -36dB "Nordic"
for horizontal or vertical mounting	1-7 "BBC" (4 = 0.775V)
Mechanical outline	see below
Colour	black
Accessories	10 pole edge connector type CCL10DV
	Spacing: 3.96 mm
	Two fasteners for panelmounting

If the dual.log. amplifier is removed, the 177-800 can be used as a dc-voltmeter with a sensitivity of 1 volt for full-scale-deflection (10mV resolution). See below for connection.

Note 1: Because of the internal floating supply voltage, no input transformers are needed. 40dB common-mode rejection is obtained by differential Op-amp. technique.

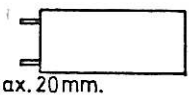
Mechanical Outline.



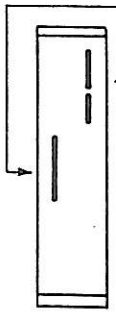
Panel Cut-out

$40^{+0.5}_{-0} \times 160^{+0.5}_{-0}$ mm

Panel thickness max. 20mm.



Connections.



Term No.	P.P.M-Mode	dc-Voltmeter-Mode
1	Power Supply Pos.	Power Supply Pos.
2	Power Supply Neg.	Power Supply Neg.
3	Chassis	Chassis
4	Not Connected	Not Connected
5	Input Ground	" "
6	Bal. Input Left	" "
7		" "
8	Input Ground	Input Ground
9	Bal. Input Right	dc Input Left
10		dc Input Right

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Normally the PPM will stay correctly adjusted, except when a component has failed and been replaced; then it may be necessary to make certain adjustment. Before attempting to make any adjustments, note the permissible indication errors stated in Technical Specifications.

Voltmeter adjustment (Removed Log. Amplifier)

C3 calibrates the stair-case-waveform generator to 10 mV per step.

P1 adjusts the starting point of the overload area.

Turn P1 fully CW.
Connect a dc-source of 1,005V between Term. 8 (Input Ground) and Terminals 9/10 (dc-input Left/Right). Terminal 8 negative. Adjust C3 until cathode number 101 just starts glowing.
Then P1 is adjusted so that the overload area starts at cathode number 83.

Log. amplifier adjustment

Apply input signal 1 kHz (ref. level) and adjust P2 Ref. Level to ref. reading.

Reduce input signal 40 dB and adjust P1 Low Level to ref. level - 40 dB reading.

Adjust P3 Fall-Back to correct fall-back time.

Rettelser