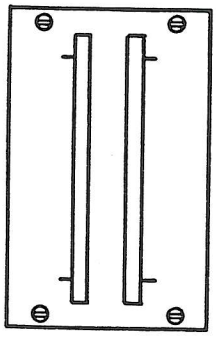
NTP ELEKTRONIK A/S	PEAK PROGRAMME METER types 177-210-2, 300-2 and 310-2 Index of Types.	177-3020-A4

Type 177-21o-2

Stereo

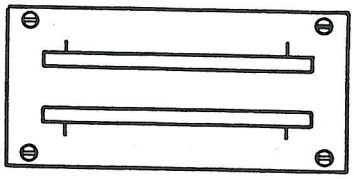
Is always delivered with vertical scale



Type 177-300-2

Stereo

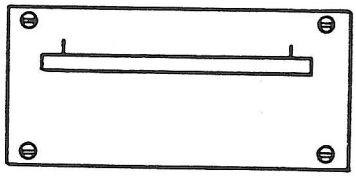
is always delivered with horizontal scale



Type 177-310-2

Mono

is always delivered with horizontal scale



Type	Input ref.level	Scale	Additional Gain	Notes
177-210-2	+ 6 dBu	Linear	+ 40 dB	Nordic Scale
177-210-2-D	+ 15 dBu	Linear	+ 40 dB	Swiss scale
177-210-2-E	+ 6 dBu	DIN	+ 20 dB	Standard DIN
177-210-2-F	+ 15 dBu	appr.DIN	+ 40 dB	Swiss scale
177-210-2-H	+ 15 dBu	appr.DIN	+ 20 dB	Swiss scale
177-300-2-B	+ 6 dBu	Linear	+ 40 dB	Nordic Scale
177-300-2-E	+ 6 dBu	DIN	+ 20 dB	Standard DIN
177-300-2-F	+ 15 dBu	appr.DIN	+ 40 dB	Swiss scale
177-300-2-G	+ 6 dBu	appr.DIN	+ 40 dB	Swiss scale
177-310-2-B	+ 6 dBu	Linear	+ 40 dB	Nordic Scale
177-310-2-E	+ 6 dBu	DIN	+ 20 dB	Standard DIN
177-310-2-F	+ 15 dBu	appr.DIN	+ 40 dB	Swiss scale

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Supply voltage for amplifiers	:	22 to 32 volts dc
Current consumption (amplifiers)	:	Approx. 33 mA per channel
Supply voltage for lamps	:	5.8V rms
Current consumption per lamp	:	Approx. 0.5 A per channel
Lifetime for lamps at 5.8V supply voltage.	:	Approx. 2000 hours
Type of lamp	:	ERG L63 (6.3V - 3.3W)
Temperature range	:	-20 to +60°C (-4 to +120°F)
Frequency range, 0.5dB points	:	20 Hz to 16 kHz
High frequency roll-off	:	at 25 kHz greater than 7dB, at 40 kHz " " 20dB
Input impedance within frequency range	:	20 kohm ±15% balanced floating
Input voltage for 0dB reading (100% deflection)	:	1.55V rms sine (+6dBu). Note 1.
Input overload level	:	24.5V rms sine (+30dBu)

Indication errors :

	at reading +5 to -10dB	at reading below -10dB
1 kHz steady signal, 25°C	±0.5dB	±1dB
within full freq. range, 25°C	+0.5/-1dB	+0.5/-2dB
within full temp. range, 1 kHz	±1dB	±2dB
polarity shift of unsymmetrical wave	±0.5dB	±1dB

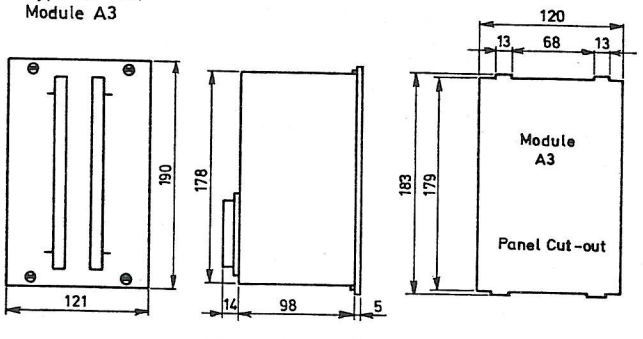
Tracking between channels (not valid for 177-310, Mono)	:	Better than ±0.5dB
Integration time measured with 5 kHz tonebursts Conforming to DIN 45406 and IEC 268-10	:	10 m sec toneburst gives -1dB ±0.5dB 5 m sec toneburst gives -2dB ±1dB 3 m sec toneburst gives -4dB ±1dB 0.4 m sec toneburst gives -15dB ±4dB
Fall-back time with linear scale	:	1.5 sec per 20dB
Fall-back time with scale according to DIN 45406 Conforms with IRT-ELA KE/Mr 4.5.70	:	1.5 sec for 0 to -20dB and 2.5 sec ±0.1 sec for 0 to -40dB
Additional gain (all types have terminals for remote control of additional gain, but only the types 177-300 and 177-310 have push-button controls on the frontplate)	:	+40dB ±0.5dB standard on linear scales +20dB ±0.5dB for scales according to DIN
Noise level, input reference	:	-105dB (input load 200 ohms)
Cross-talk between A and B channel, at 15 kHz	:	better than 85 dB, unused input ballanced terminated with 2 x 500 ohms center grounded.
Common mode rejection	:	better than 60 dB at 15 kHz.

Note 1. Reference level +15dBu, or other reference levels on request.

Light Spot Meter Systems

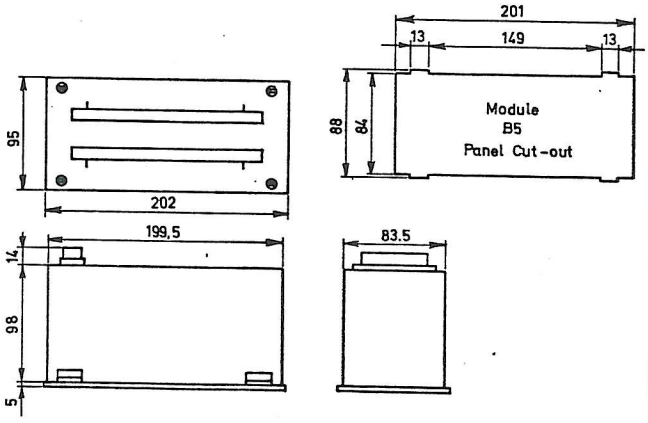
Mechanical zero (no current in the moving coil)	:	The center of the light-spot (dark line) approx. 3 mm from the upper scale limit in the red area
Current sensitivity	:	Approx. 2.3 mA per 100 mm deflection
Mechanical rise time	:	Approx. 35 m sec
Mechanical over-shoot	:	Less than 0.5dB at 0dB reading.
Total scale length	:	150 mm
Standard scales (see also Index of Types)	:	+5 to -50dB DIN scale +9 to -36dB Nordic scale
Standard scale colour	:	Dull black, if not otherwise specified by the customer
Connector	:	Amphenol-Tuchel 2700 000
Weight	:	Approx. 2.5 kg

Mechanical outline:
Type 177-210
Module A3



Panel thickness at the notches 3mm $^{+0,1}_{-0}$

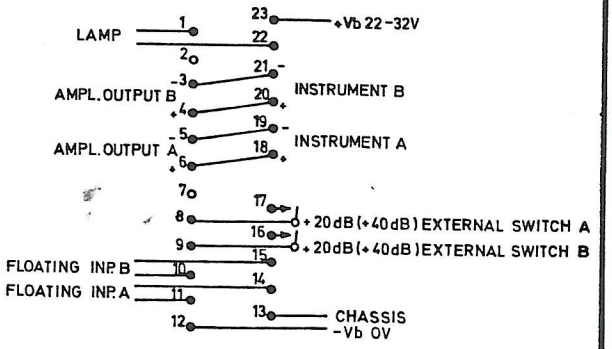
Type 177-300
and 177-310
Module B5



The amplifiers are wired to the light spot meter system via the connector. This enables driving of an extra meter or a level recorder with a maximum serial resistance of 800 ohm at 22V and 1200 ohm at 24V supply voltage. Avoid grounding !

Connections between the terminals 3 and 21, 4 and 20, 5 and 19, 6 and 18 must be made externally (Tuchel connector 2700 000) in order to interconnect the amplifier outputs to the instruments.

Mating
Connector for all types: Amphenol - Tuchel 2701-000



Mono Instruments: Do only connect channel A