

General Specifications

Supply voltage

22-32V DC

Current consumption

approx. 130mA at 24V supply

Temperature range

0 to 45°C ambient temperature

Input

Frequency range, 0.5dB point

20 Hz to 16kHz

High frequency roll-off

at 25kHz greater than 7dB

at 40kHz greater than 20dB

Input impedance

20k Ω \pm 10%, balanced, floating

Input voltage for 0dB reading

1.55V rms sine (+6dBu)

Input overload level

8.6V rms sine (+21dBu)

Dynamic measuring range

55dB

Measuring Errors

1kHz steady signal, 25°C

at +5 to -10dB

below -10dB

Within full frequency range, 25°C

\pm 0.5dB

\pm 1dB

Within full temperature range, 1kHz

+0.5/-1dB

+0.5/-2dB

Polarity shift of unsymmetrical wave

\pm 1dB

\pm 2dB

10% change of supply voltage

\pm 0.5dB

\pm 1dB

Tracking between channels

\pm 0.2dB

\pm 0.2dB

better than \pm 0.5dB

Integration & Fall-back Time

Integration time

10msec for -1dB \pm 0.5dB

Conforming to DIN45406 and IEC268-10

5msec for -2dB \pm 1dB

Integration time is measured

3msec for -4dB \pm 1dB

with 5kHz tonebursts

0.4msec for -15dB \pm 2dB

Fall-back time, with linear scale

1.5sec for 0 to -20dB

Fall-back time with scale according to DIN45406.

Conforms with IRT-ELA KE/Mr 4.5.70.

Peak Store

Accuracy of peak storing ("Memory")

\pm 1 neosegment or \pm 0.25dB

in upper end of scale, above -30dB reading

+2/-1 neosegment or \pm 1dB

in lower end of scale, below -30dB reading

External Functions

(Available when making connections externally)

Additional gain, scales according to DIN45406

+20dB \pm 0.5dB

+40dB \pm 1dB for "Nordic" scales

"Display Peak"

Displays peak storing

"Reset"

Clears the memory

"Fast" gives an integration time

100usec for -1dB reading

Overload-LED's

Light Emitting Diodes

placed above the bar-graph

Brightness control

Scale select

Optional scale lines

General Data

Standard scales

DIN +5 to -50dB

Nordic +9 to -36dB

"BBC" 1 to 7 (4=0.775V)

All types are available for horizontal or vertical mounting.

Number of single elements in the bar-graph

200 in each channel

Overload and scale lines indication

4 times increase of light intensity

Connector

2 10-pole edge connector

Mechanical Data

The instrument is housed in a cabinet

Height

160mm

Weidth

40mm

Depth

90mm

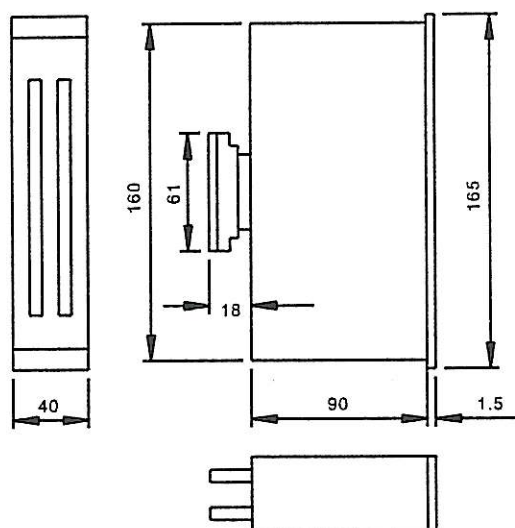
Weight

0.4kg

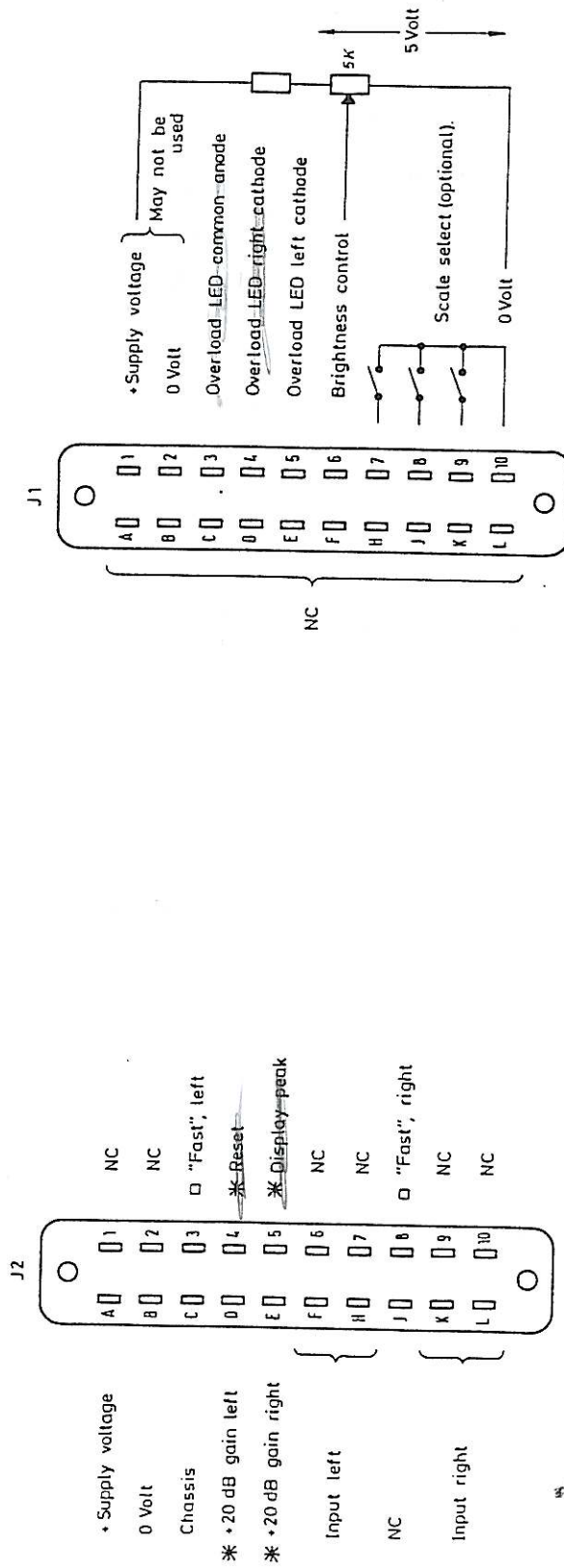
Total scale length

128mm

Mechanical Outline:



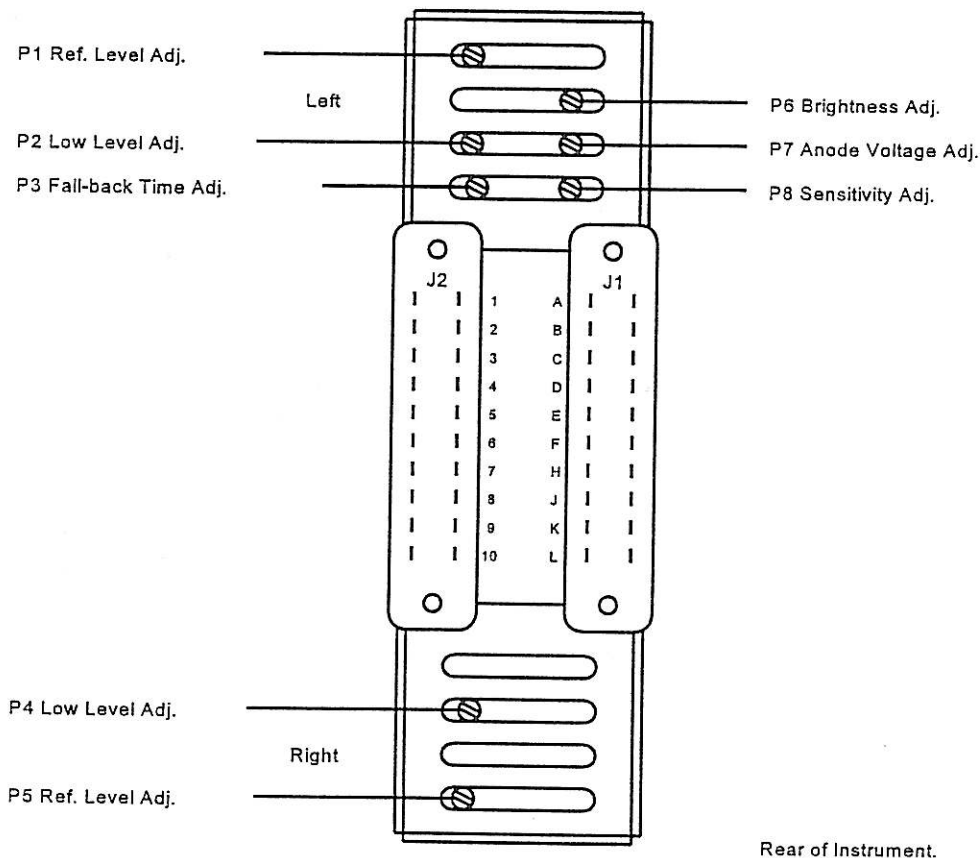
The two 20-pole connectors seen from the rear side (solderside).



* The function is established when the pin is connected to 0 Volt.

□ The function is established when the pin is connected to + Supply voltage.

Since the instrument is adjusted correctly on delivery, adjustment only has to be carried out in case of faulty mode of operation i.e. when a component has failed and has been replaced.



Rear of Instrument.

Test Set-up.

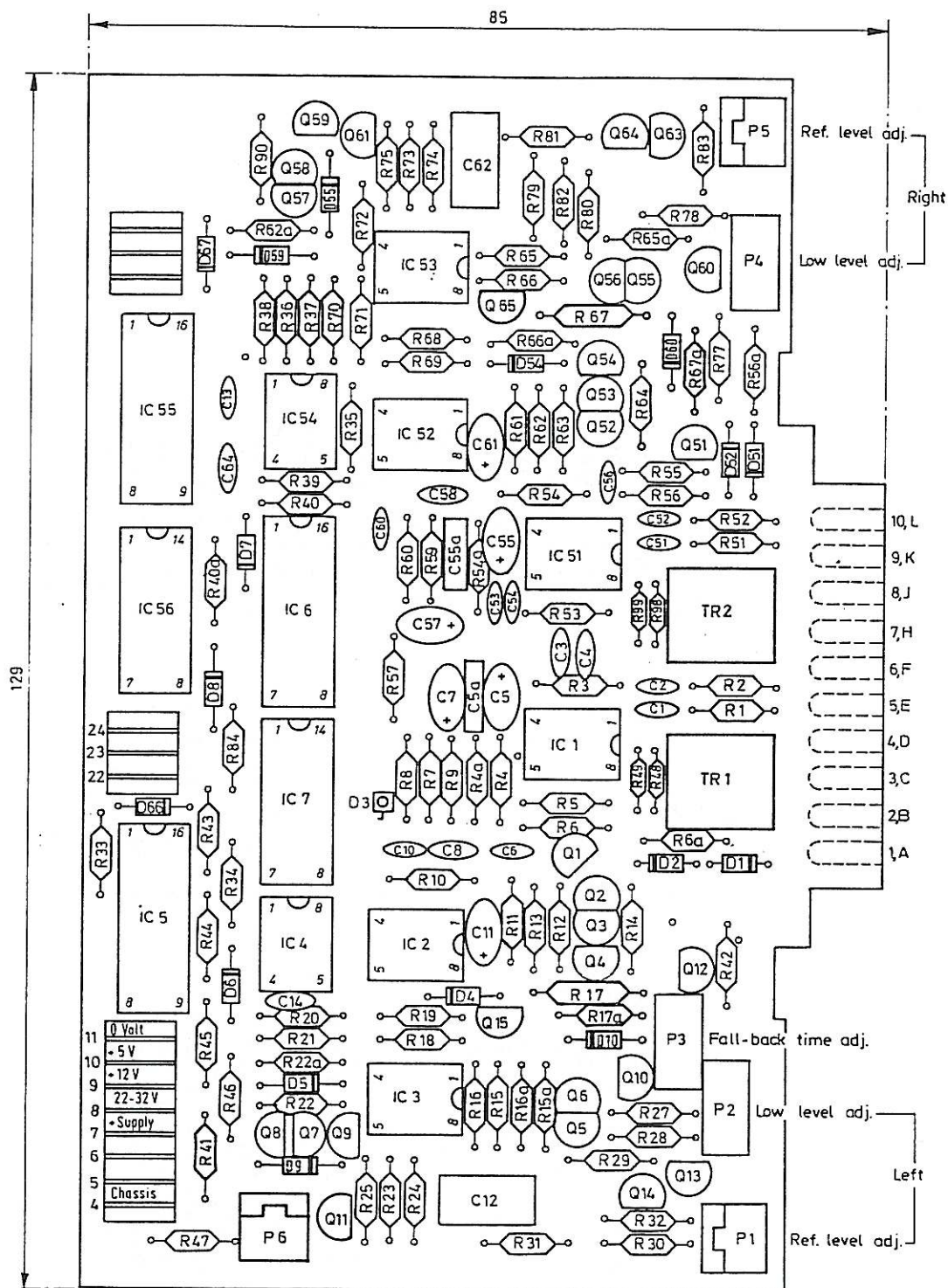
1. Connect +24V DC to pin A on J2 (+ Volt to pin B on J2).
2. Feed a signal e.g. 5kHz sinusoidal to the input terminals for both channels i.e. pin F and H as left input and pin K and L as right input. Adjust amplitude of the signal for max. reading on the display (Top of the scales).

Anode Voltage Adjust.

1. Adjust P6 for max. brightness (max. CW).
2. Turn P7 slowly CCW, as far as possible without getting a flickering display.
3. Measure the current consumption.
4. Adjust P7 to obtain an increase in the current consumption of approx. 15mA.

Brightness Adjustment.

1. Turn P6 max. CCW (min. brightness) and then slowly CW in order to obtain a uniform glow in all segments.
2. Measure the current consumption.
3. Adjust P6 to obtain an increase in the current consumption of approx. 40mA (or to desired brightness).



C5a and C55a not mounted

Version dependent components:

R27, 77, 16, 66, 22, 72, 15, 65, 6, 56, 15a, 16a, 65a, 66a

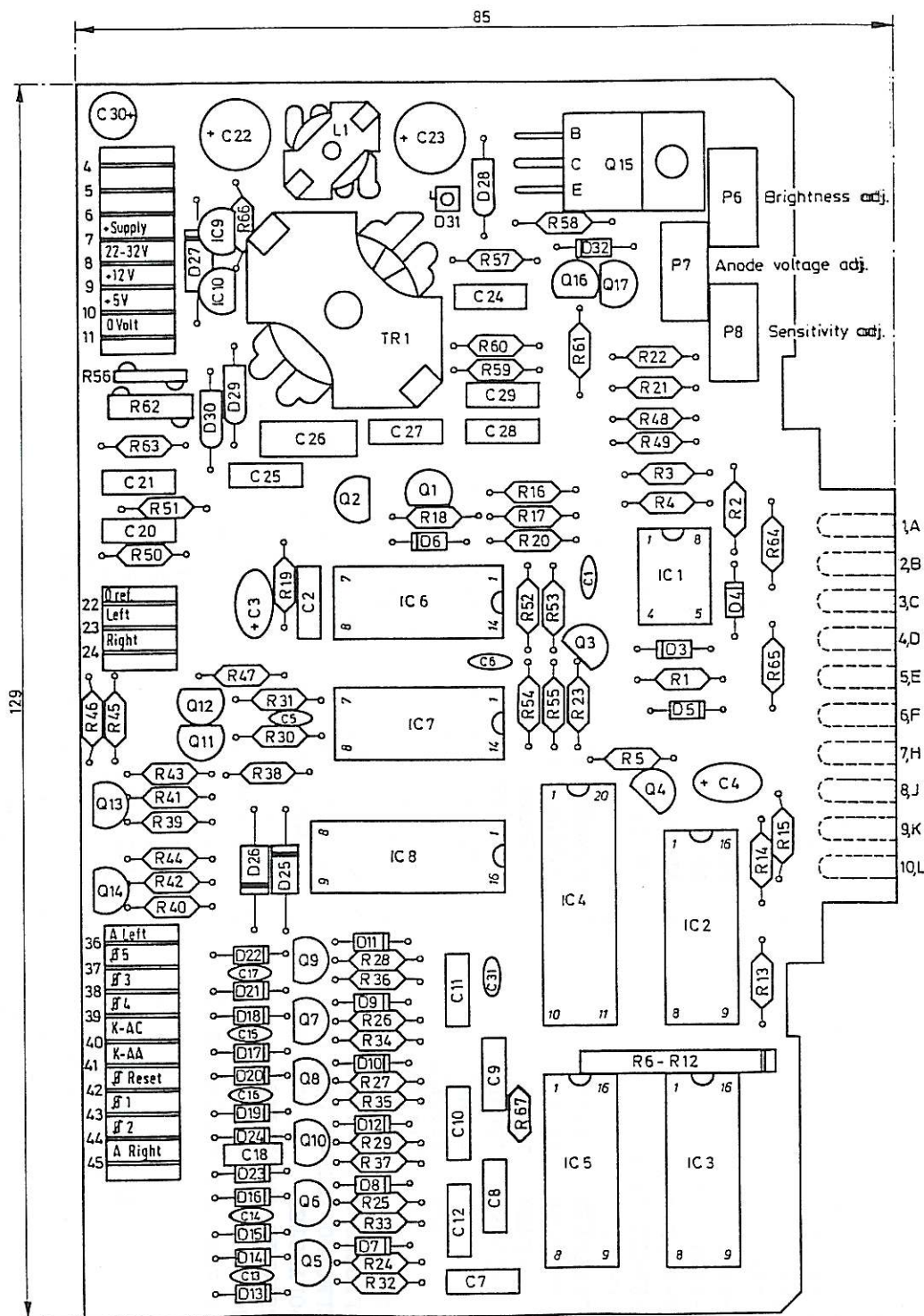
C8, 58

Målestok	: 2 : 1
Konstruktør	: B.J.
Tegnet	: 21.3, 84, L.S.
Godkendt	: B.S.
Revideret	: 7/ 900720 bb

Peak Programme Meter 277-200
Input board
Component Lay-out.

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277 - 2043 - A - 3



Målestok : 2:1

Konstruktør : B.J.

Tegnet : 4.2.82. JS.

Godkendt :

Revideret : 3

Peak Programme Meter 277-200

Driver board

Component Lay-out.

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