



Programme Meters (V.U and P.P)

BOTH peak-programme and volume-unit meters are manufactured for use in consoles and rack equipment, the two meters being fully interchangeable.

In the case of the peak-programme meter the registration speed of 4 milliseconds is the time taken to register 80% of the peak volume of a square wave. This is an electrical parameter controlled by the 2.5 milliseconds resistance-capacitance time constant of the meter amplifier. The latter is the time taken for the charge to reach 0.632 of the maximum volume.

P.P Meter Type B 1756

The B 1756 is a compact transistorized unit and has a large meter which is easy to read. The meter has a transistor amplifier which is of sufficient power to drive up to five slave meters.

Two controls are provided on the front panel to adjust the sensitivity and calibration of the unit.

Provision is made for connecting a calibration tone to the rear of the unit and a neat press-to-calibrate switch is provided above the meter on the front panel.

The power for driving the unit should be supplied externally from the controlling unit such as the B 1103 or B 1102 outside broadcast mixers.

DATA SUMMARY

Scale range: Division 1-26 dB.
Division 2-74 dB.
Input impedance: 10,000 Ω balanced.
Sensitivity: -4 dBm for reading of 4 on the scale.
Frequency response: ± 1 dB from 30 c/s to 15 kc/s.
Speed of registration: 4 milliseconds approx.
Fall-back time: 3 seconds from 7-1 on the scale.
Power supplies: 24 V d.c., 66 mA max.
Dimensions and weight:
Height 4 $\frac{3}{8}$ in. (11.1 cm)
Width 4 $\frac{1}{4}$ in. (10.8 cm)
Depth 6 $\frac{1}{2}$ in. (16.5 cm)
Weight 2 lb 4 oz. (1 kg)

P.P Meter Type B 1757 (7188)

This meter is designed for use where the power supply source is 12 volts. It is

particularly suitable for outside broadcast use, where dry batteries are used. For this reason the current consumption has been kept to a minimum and no provision is made for the use of slave meters.

Front panel controls are provided for the adjustment of gain and calibration. Provision is made for feeding a calibration tone into the unit.

DATA SUMMARY

Scale range: Division 1-26 dB.
Division 2-74 dB.
Input impedance: 10,000 Ω balanced.
Frequency response: ± 1 dB from 30 c/s to 15 kc/s.
Speed of registration: 4 milliseconds approx.
Fall-back time: 3 seconds from 7-1 on the scale.
Dimensions and weight:
Height 3 $\frac{1}{8}$ in. (8 cm)
Width 4 $\frac{1}{2}$ in. (11.4 cm)
Depth 6 in. (15.2 cm)
Weight 1 lb 13 oz. (0.82 kg)

V.U Meters B 1758

The B 1758 range of v.u meters are designed to fit into the same space as the p.p meters described earlier. Their performance is as recommended by the A.S.A standard C16.5 - 1954 or the I.R.E recommendation 1953.

DATA SUMMARY

Scale range: Greater than 23 v.u.
Sensitivity: +4 dBm for zero v.u reading.
Frequency range: 30 c/s to 15 kc/s ± 0.25 dB.
Speed of registration: Less than 0.33 seconds for zero v.u reading.
Fall-back time: 0.33 seconds.
Input impedance: 7,500 Ω .

P.P Meter Unit Type B 1752

V.U Meter Unit Type B 1755

These earlier-designed valve units are extensions to the unit system of amplifiers (see page 42).

DATA SUMMARY

Type B 1752
Input impedance: 30,000 Ω .

Range: Reads '4' on meter for inputs from -10 dBm to +10 dBm adjustable in 2 dB steps.

Power supplies: 300 V, 7.5 mA h.t 6.3 V, 0.8A r.m.s l.t.

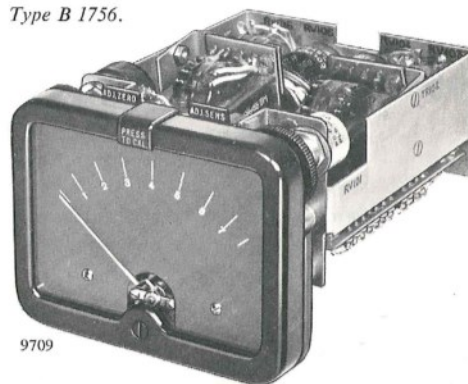
Type B 1755

Input impedance: 30,000 Ω .

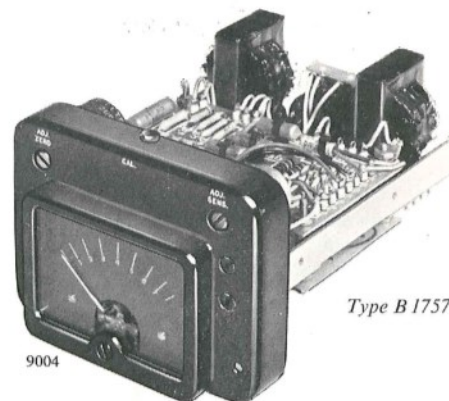
Range: Reads 'v.u' on meter for inputs from -10 dBm to +10 dBm adjustable in 2 dB steps.

Power supplies: 300 V 7.5 mA h.t 6.3 V 0.5A r.m.s l.t.

Type B 1756.



9709



Type B 1757.

9004

Marconi

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