

Digital Level Meters



The PM-10, PM-20 and PMP-20 Digital Level Meters greatly simplify the job of testing telephone and audio channels in the field. Potential users of these devices include telecommunications authorities, railways, oil companies, broadcasting companies and utilities. When combined with the PS-10 or PS-20 Level Generator, each of these devices forms a complete, battery-powered AF level measuring setup. The auto-ranging capability and large digital display with 0.1 dB resolution make measurements quick and easy. For out-of-service or loop-back measurements, the PM-10 offers two fixed levels (switch-selectable) of -10 and -27 dBm at 820 Hz.

An automatic cutoff circuit ensures that no battery power is wasted. For carrying or storing the instruments, leather pouches and full-sized cases are available with room for power supplies and accessories.

The PMP-20 can measure either weighted or un-weighted noise in accordance with ITU-T Recommendation O.41. A true rms detector is used.

- Frequency range from 80/15/30 Hz to 20 kHz
- Broadband level measurements on telephone and audio channels
- ITU-T noise measurements (PMP-20)
- Built-in generator (PM-10)

Specifications

Level measurement

	Frequency range	Level range
PM-10	80 Hz to 20 kHz	-50 to +10 dBm
PM-20	15 Hz to 20 kHz	-50 to +30 dBm
PMP-20	30 Hz to 20 kHz	-70 to +10 dBm

Built-in generator (PM-10 only)

Output frequency: 820 Hz

Output level, selectable: -10 or -27 dBm

D.C. voltage measurement (PM-20, PMP-20)

Measuring range: 0 to ± 100 V

Noise measurement (PMP-20 only)

Frequency dependency per ITU-T O.41

Detector: true rms

Level measuring range (input level): -85 to +10 dBm

Error limits of level reading at 800 Hz: ± 0.5 dB

Measurement inputs

For level: balanced, floating,

3-way CF connector

Input impedance: 1 M Ω

For d.c. voltage (PM-20, PMP-20):

floating with 1 M Ω input impedance

For more information:

PM-10 Digital Level Meter	BN 820/..
PM-20 Digital Level Meter	BN 881/01
PMP-20 Digital Level and Noise Meter	BN 876/..