

Desktop Peakmeter 1204A/1205D

1204A Desktop peakmeter with analog inputs 1205D Desktop peakmeter with AES/EBU input

These desktop units are ideal for many applications requiring precise, standard conform level control and mono compatibility monitoring. They are well suited for use as a reference instrument in audio workstations, control rooms, video postproduction suites, PA systems and others.

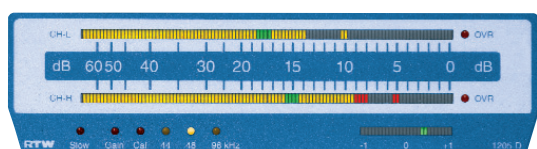


- Peak level, peak hold and loudness display
- Additional phase meter
- Conforms to DIN, IRT and IEC standards
- Peak memory and peak hold functions selectable
- Calibration mode for exact level setting
- Over detector and headroom marker (1205D)
- Reference level adjustable -12 dBu to $+8$ dBu (1204A)

- 3-color, 106-LED bargraph display, 111 mm long
- External power supply (included) 24 V DC, 210 mA
- Fixed connection cables, 2 m long
- Available in light grey, blue and black

All at a glance: the three-way combo display

The values for level, peak level and loudness are displayed on the high-precision LED bargraph display using different colors. The fine resolution provided by the 106 elements over a 110 mm scale guarantees excellent, at-a-glance legibility that is easy on the eyes. Thanks to the high resolution of 0.33 dB per LED in the upper range achieving optimum level control is always easy, even for really difficult programme material.



Scale of the desktop peakmeter 1205D

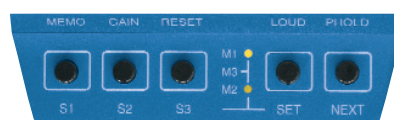
Always important: mono compatibility

Checking the mono compatibility is a must in all audio productions. The measure of this is the degree of correlation between the left and right channels, the mean value of which should be between $+0.5$ and $+0.7$ for a well balanced stereo programme.

A value of $+1$ indicates a mono audio signal, a readout that fluctuates constantly between 0 and -1 indicates that the signals are more or less out of phase, which means that they are not ideal for FM stereo broadcasting, for example.

The reference level

The digital version 1205D comes with a standard 60 dB scale on which the 0 dB mark refers to 0 dB FS. The headroom mar-



Control panel of the peakmeters 1204A and 1205D

ker can be set between -5 dB FS and -20 dB FS, but in most cases -9 dB FS or -18 dB FS will be selected. On the analog model 1204A the reference level for a 0 dB indication can be set electronically between -12 dBu and $+8$ dBu.

Specifications:

General (models 1204A and 1205D)	
Supply voltage	24 V DC
Current drain	1204A: 250 mA nominal, 1205D: 230 mA nominal
Temperature ranges	Operating: 0° to 45° C, storage: -30° C to +85° C
Dimensions	168 x 94.5 x 80.5 mm (W x H x D)
Weight	approx. 540 g net
Connectors	Fixed cables, 2 m long, with XLR connectors and locking 4-pin low voltage connector (Type Binder 710)
Functions	Memory, Gain, Reset, Loudness on/off, Peak Hold on/off, calibration mode for exact level setting
Inputs analog (model 1204A only)	
Type	analog, 2 x XLR-F, electronically balanced
Max. input level	+21 dBu
Input sensitivity for 0 dB reading	+6 dBu (1,55 V)
Adjustable range for 0 dB display	-12 dBu to +8 dBu
Input impedance	> 40 k Ω (30 Hz to 20 kHz)
Input digital (model 1205D only)	
Type	AES/EBU, 1 x XLR-F, transformer balanced, 110 Ω
Sampling rates	44 kHz to 96 kHz
Output digital (model 1205D only)	
Type	1 x XLR-M, the digital input signal is looped through
Peakmeter (general for models 1204A and 1205D)	
Scale	according to standard (see below)
Scale length	111 mm
Display	Three-colored precise LED bargraph display, 2-channel, 106 elements per channel
Displayed functions	Peak level, peak hold, loudness
Peakmeter analog (model 1204A only)	
Measuring standard	according to DIN 45406 and IRT 3/6
Scale range	-55 dB to +5 dB
Headroom marker	0 dB to +5 dB (red marked)
Colors of display	-55 dB to 0 dB: yellow, 0 dB to +5 dB: red
Integration time	10 ms (1 ms, 0.1 ms)
Fall back time	1.5 s for 20 dB
Peakmeter digital (model 1205D only)	
Measuring standard	Digital, according to IRT 3/6
Scale range	-60 dB FS to 0 dB FS
Headroom	adjustable between -20 dB FS to -5 dB FS
Colors of display	-60 dB FS to headroom: yellow, headroom: red
Integration time	Sample or 10 ms
Fall back time	1.5 s for 20 dB

Phase meter (models 1204A and 1205D)	
Scale	according to standard
Scale length	27 mm
Display	Three-colored precise LED bargraph display, 26 elements
Displayed functions	Correlation level r of the two channels: red: -1 r to -0.2 r yellow: -0.2 r to +0.2 r green: 0.2 r to +1 r
Indication without input signal	yellow: 0 r
Attack/release time	1.0 s, software switchable 2.5 s
Memory	Most negative value
Memory accuracy	better 0.1 r
Loudness meter (models 1204A and 1205D)	
Display	Spot with four green segments on each bargraph
Frequency weighting	Three filter stages per channel
Detector	True RMS
AGC	Auto
Dimensions	
Dimensions	168 x 94.5 x 80.5 mm (W x H x D)
Weight	approx. 540 g
Items delivered	
Model 1204A	Analog desktop peakmeter, case: light grey (RAL 7035), scale: violet blue/light grey (RAL 5000/7035), connectors, mains adapter, manual
Model 1205D	Digital desktop peakmeter, case: light grey (RAL 7035), scale: violet blue/light grey (RAL 5000/7035), connectors, mains adapter, manual
Model 1204A-BL	Analog desktop peakmeter, case: violet blue (RAL 5000), scale: violet blue/light grey (RAL 5000/7035), connectors, mains adapter, manual
Model 1205D-BL	Digital desktop peakmeter, case: violet blue (RAL 5000), scale: violet blue/light grey (RAL 5000/7035), connectors, mains adapter, manual
Model 1204A-SW	Analog desktop peakmeter, case: traffic black (RAL 9017), scale: iron/window grey (RAL 7011/7040), connectors, mains adapter, manual
Model 1205D-SW	Digital desktop peakmeter, case: traffic black (RAL 9017), scale: iron/window grey (RAL 7011/7040), connectors, mains adapter, manual
Optional Accessories	
	13717 Fastening kit

Model 1205D: digital goodies

The 1205D accepts AES/EBU signals at sampling rates between 44.1 kHz and 96 kHz. It offers digital over indicators with adjustable threshold and attack time as well as selectable headroom markers and a sampling frequency indication. All settings can be stored in preset menus. The integration time normally is set to one sample but can be changed to 10 ms (slow mode) if the 1205D is used in a mixed-domain environment.

Too loud or too soft?

RTW offers a tried-and-tested loudness level control method, which has already been available for some time. Both the

1204A and the 1205D support this system. The loudness value is displayed by a green spot on the LED bargraph. It is especially helpful for loudness balancing between different programmes.

Attractively packaged

The models 1204A and 1205D are designed to harmonize with existing studio configurations, with attractively slim, compact housings and no bulky connectors. Both models are available in light grey to match standard monitors, in blue as a pleasant contrast to wooden desks or in traditional black for standard environments.

Dimensions

