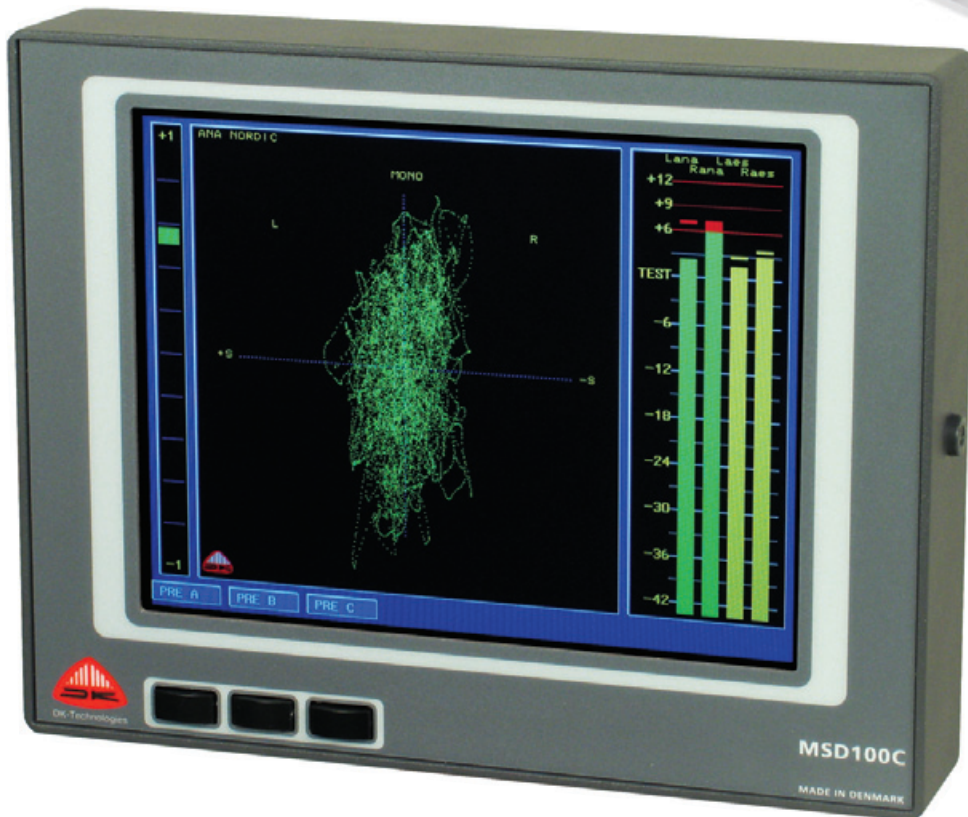


# Master Stereo Meter

PRODUCT CODE: MSD100C



DK - Technologies



**The MSD100C Master Stereo Meter is an inexpensive entry into the professional audio metering world, while still offering the main metering tools such as phase meter, audio vector oscilloscope, and level meter with programmable scales.**

The MSD100C is a natural development of the successful MSD100, which has been on the market since 1996 and has sold in the thousands.

With a very competitive price this new model has all the makings of a market leader in stereo metering and is bound to be as successful as the original MSD100 series.

## APPLICATION

Primarily intended for studio applications for stereo monitoring, both analogue and digital signals may be monitored on the display simultaneously.

## CONFIGURATION

The MSD100C has both 1 balanced stereo analogue and 1 digital AES3 (up to 96 kHz) input, a VGA output, phasemeter, audio vector oscilloscope, multiple PPM's with colour coding for signal identification, 3 user defined soft keys for easy operation and 11 presets.

## Features...

- 1 AES3 input
- 2 analogue inputs, transformer balanced
- Full VGA colour display
- External VGA output
- 3 user definable soft keys
- 11 presets
- Level meter with user definable scales and reference levels
- Audio vector oscilloscope
- Includes wall plug power supply

## Ordering Information..

### MSD100C

Master Stereo Meter with 2 analogue inputs and 1 digital AES-3 input including power supply, 25-pole D-Sub, 3 XLR connectors, and RS-232 communication cable, Quick Start Manual.

The Next  
Generation

## RELATED PRODUCTS

### Desktop versions:

#### MSD100C-Loudness

Colour display. Pre-configured, analogue and AES3 stereo inputs and outputs. Designed for ITU Loudness measurement in ITU Loudness Units (LU) only.

#### MSD200C

Colour display. Pre-configured, analogue and AES3 stereo inputs and outputs. Full functionality including spectrum analysis.

#### MSD600M++

Modular configuration of inputs in analogue, AES3 & SDI with outputs in analogue and AES3.

### Rack mount versions:

#### PT0200C

Colour display. Pre-configured, analogue and AES3 stereo inputs and outputs. Full functionality including spectrum analysis.

#### PT0660M

Modular configuration of inputs in analogue, AES3 & SDI with outputs in analogue and AES3. Volume control.

#### PT0660M-LS

Modular configuration of inputs in analogue, AES3 and SDI with outputs in analogue and AES3. Stereo loudspeakers and volume control.

### Peak Programme Meters:

#### 478-series

Stereo PPM with AES3 or analogue inputs and phasemeter. Horizontal or vertical versions for rack mount and desktop. Choice of scales.



## PRODUCT DATA

### PPM Scales

#### Dynamic response:

- Pflichtenheft 3/6: 3 ms / -3 dB
- IEC 268-10: 5 ms / -2 dB
- IEC 268-17: VU: 300 ms

#### Division of scales:

- Type I: -42 dB to +12 dB
- Type IIA: 1 to 7 (-12 dB to +12 dB)
- Type IIB: -12 dB to +12 dB
- Type DIN: -50 to +5 dB
- Type VU: -20 dB to +3 dB
- Type DMU-I: +60 dB to 0 dB
- Type DMU-2: -6.0 dB to 0 dB
- The software package DK-Scale provides more scales and allows design of proprietary scales.

### LCD Display Type

- Colour VGA, 640 x 480 pixels
- CCFT Backlight

### Power Supply

- Wall plug version
- Voltage: 100 to 240 V AC
- Frequency: 48 to 62 Hz

### Audio Connector

- 25-pole D-Sub connector
- 1 balanced, analogue stereo input
- 1 AES3 input

### Digital Input

- Sample rate: 30 kHz to 100 kHz
- Input sample rate converter
- Default internal sample rate: 48 kHz

- Bit resolution: 24 bits
- Group delay: 1.75 msec
- Passband ripple:  $\pm 0.008$  dB
- Total harmonic distortion: less than -103 dB at 1 kHz and -1 dBFS
- Dynamic range: larger than 120 dB
- Nominal input impedance: 110 ohm

### Utility Connector

- 9-pole D-Sub
- Power input: 12 to 15 V DC
- Programming interface: I2C
- Serial data port: RS-232

### Analogue Inputs

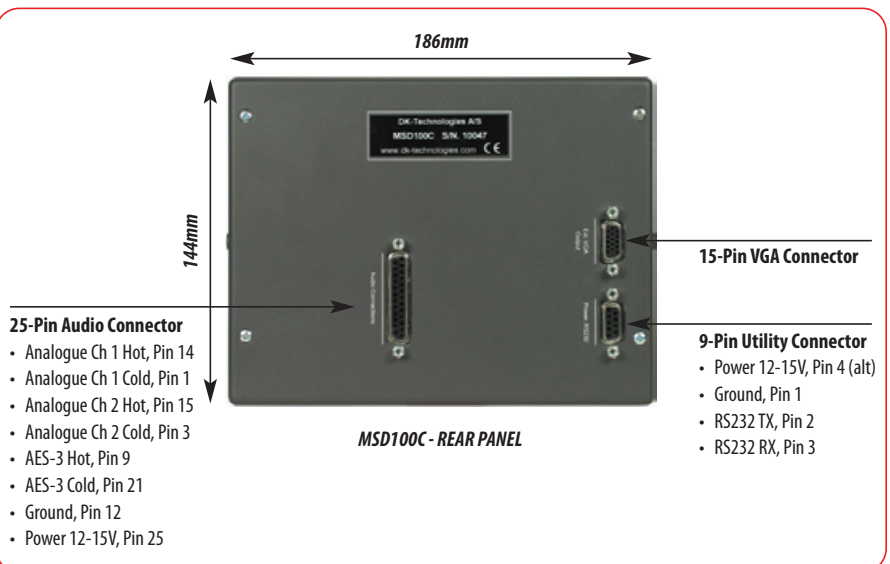
- Maximum input level: +24 dBm
- Sample rate with internal sync: 48 kHz
- Sample rate with external sync: 32 to 50 kHz
- Bit resolution: 24 bits
- Frequency response: 10 Hz to 21 kHz within 0.3 dB
- Passband ripple:  $\pm 0.002$  dB
- Dynamic range: more than 103 dB
- Crosstalk between inputs: less than -96 dB
- Signal-to-noise ratio: typical 93 dB relative to -1 dBFS
- Nominal input impedance: larger than 20 kohm

### VGA Connector

- 15-pole D-Sub
- Signal: Colour VGA, 640 x 480 pixels

### Mechanical Data

- Height: 144 mm
- Width: 186 mm
- Depth: 1.2 kg
- Weight: 1.2kg



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