

SMF-5mkIII

MARENIUS

ULTRALOWNOISE MICROPHONE AMPLIFIER

- Two low-noise microphone inputs
- Input transformers by Lundahl
- Gain range 30 - 70 dB
- 48V phantom power
- Balanced XLR outputs
- Headphones socket
- 10 - 35 V power supply
- Compact size



SMF-5mkIII is a microphone amplifier with ultra-low noise level. It is intended for high-end recording with high resolution.

Each input has a top-of-the-line audio transformer by Lundahl. With this transformer the low-frequency distortion is negligible while frequency range is extended down to 5 Hz.

Harmonic distortion is down to 0.006% @ 1 kHz and +12 dBu output with 30 dB gain.

The input referred noise level is -131 dBu with a lowZ source.

Gain may be individually set for each channel. Basic gain is selected with a toggle switch for 30 or 50 dB. Additional gain and fine adjustment is controlled by a

potentiometer for a maximum of +20 dB. Total gain is 30 to 70 dB from input to the balanced XLR output. There is also a headphones output that will double as unbalanced output.

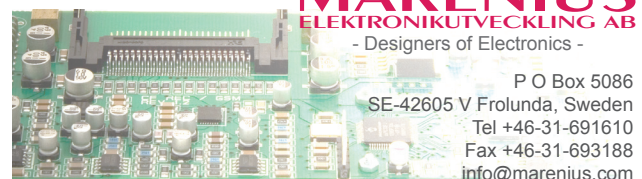
Phantom power, 48 V may be selected by a toggle switch on the front panel.

Power supply is by a separate mains adapter.

The power supply may be in the range 10 - 35 VDC. *In contrast to the previous model SMF-5 this version will not run from internal battery power although an external battery may well be used.*

SMF-5mkIII is housed in an EMC shielded case.

An optional carrying case, made by PortaBrace, is available.



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Visit www.marenius.com for information about other MARENIUS products.



Box includes:

- 1x SMF-5mkIII
- 1x Power supply
- 1x User Instructions (English)

Technical Data

SMF-5mkIII

Frequency range	5 - 40 kHz (-3 dB) 10 - 20 kHz (+0.5 dB)
THD @ 30 dB gain	<0,006% @ 1 kHz, +12 dBu
Max. gain	70 dB (64 dB for unbal. out)
Channel crosstalk	<-88 dB @ 1 kHz
Equiv. input ref. noise	<-131 dBu with lowZ in
Input sockets	XLR-3F
Mic input impedance	1 K ohms
Mic input level	max. -6 dBu
Output sockets	XLR-3M and mini-tele 3.5 mm
Audio output impedance	2 x 22 ohms balanced
Audio output level	max. +24 dBu (XLR) max. +18 dBu (mini-tele)
Phantom power	48 V±1 V, max 5 mA
Power supply	External supply 10 - 35 VDC, 2.1 mm socket
Size W x H x D	approx. 140 x 60 x 136 mm, excl. sockets and knobs
Weight approx.	900 grams
Carrying case	PortaBrace original, optional

Specifications are subject to change without notice.

User Instructions

Attach the PSU to the DC supply socket. Polarity should be center pin (+). The DC input is polarity protected.

Activate SMF-5 by switching POWER on.

Connect the microphones to the XLR input sockets.

Switch on 48 V phantom power, if desired.

Make a choice of balanced XLR or unbalanced output (through the front panel mini-tele socket).

Select basic gain by the gain switches and add additional gain by the potentiometers.

Connect a headphone to the front panel socket and adjust audio level by the phones gain potentiometer.

Note 1:

Do not short-circuit the XLR output signal pins 2 or 3 to GROUND pin 1. The outputs are transformerless.

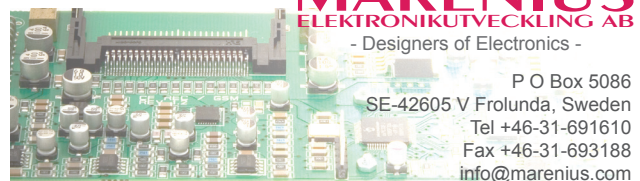
Note 2:

Do not connect unbalanced microphones while 48V phantom power is active. This may destroy the microphone.

Dynamic, balanced microphones will not be damaged by 48 V phantom power.

Balanced sockets wiring:

- 1 ground/shield
- 2 hot
- 3 cold



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