medilog® AR12 plus

DIGITAL HOLTER RECORDER

The medilog® AR12 plus is the latest step in development and follows the medilog® AR12. It is the most sophisticated Holter recorder on the market.
The sample rate has been increased for better ECG quality and noise reduction.

The water resistance reduces costs for repairs of water damages. The high oversampling provides an extremely high noise suppression with incredible 128db!
The medilog® AR12 plus is also the recorder best suitable for the medilog® DARWIN Webserver as it is very easy to use.

Features:

- Real-time detection of the P wave, which is used in medilog® Darwin atrial analysis
- Online digital pacemaker detection
- Very accurate R peak detection, which is used in medilog® Darwin HRV analysis
- Bright, easy-to-read OLED display for ECG control during preparation and for setting up the recording including cable check
- Voice recording for easy entering of patient name or other acoustic information
- Water resistance (IPx4 / IPx5)
- Integrated 3D accelerometer for automatic motion protocol in medilog® Darwin
- Runs with only one AAA battery for up to 3 days. The battery can be changed during the recording, hence an indefinite recording mode is possible
- Sample rate 8000 Hz with 15 bit resolution

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Technical Data AR12 plus

Dimensions	
Width	60 mm
Height (without cables)	76 mm
Depth	23 mm
Weight (without batteries)	115 g
Ingress protection against water	IPX4

Real time analysis	
R peak time resolution	250 µs
P and T time resolution	2000 µs
Pacemaker time resolution	250 µs

ECG	min.	typisch	max.
Dynamic bandwith	12 mV	13 mV	14 mV
Analogue bandwith		1.6 kHz	
Filter lower frequency		0.045 Hz	
Electrodes		5	7
Channels		3	
Sampling rate	4000 Hz	-	8000 Hz
Recording rate	125 Hz		1000 Hz
Resolution		12	

Electronics	min.	typisch	max.
Vin (supply voltage) 1 x 1.5 V AAA battery	1.0 V	1.5 V	2.7 V
Internally occuring voltage		3.0 V	12 V
Imax. input current Ta = 0 - 85 °C	0.58 A	0.8 A	1.0 A
In RMS current during recording Vbatt = 1.5V 10 mA	15 mA	20 mA	
Electronic resolution	12 Bit		15.5 Bit
Operating time	24 h		80 h

Type designation: medilog® AR12 plus
Calssification according to 93/42/EEC appendix IX: IIa

Power consumption and operation duration were measured with a SanDisk ULTRAII 2 GB memory card - power consumption varies depending on the SD card and the selected settings. Moreover, the operation duration varies depending on the battery type used. The recorder is operated with a 1.5V AA battery. The recorder is equipped with a mechanical protective mechanism against the reverse connection of the battery. The permitted supply voltage range Vin of 1.0-2.7V permits the use of 1.2V NiMH rechargeable batteries. The RMS current requirement (IN) corresponds to the average current requirement at a supply voltage of 1.5 V. The current required for the switch processes is supplied by the input current Imax (max. 0.8A). These switch processes occur periodically and last for less than 5µs.

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