

Model CT-1000 Cardi tachometer

Accurate Heart Rate and R-R interval measurement

The CT-1000 Cardi tachometer module provides a convenient and accurate measure of heart rate (HR) or beat-to-beat interval (R-R). Its many advanced features make it easy to set up and operate.

The unit accepts either a low-level, direct-wired ECG input or a high-level signal such as arterial blood pressure. The low-level input includes a medical-grade isolation amplifier for absolute safety and extra noise immunity.

Setting up the instrument is straightforward. Once the electrodes are connected to the subject using the familiar left arm, right arm, right leg configuration, auto mode is selected, and the setup button is pressed. The instrument analyzes the signal, and automatically adjusts the signal gain to achieve optimal measurements. The heart rate (or R-R interval) is displayed on the LED display, and updated on each beat. An audible beep can be turned on or off as desired.

Outputs from the CT-1000 include the amplified ECG signal, a logic pulse generated at the beginning of the R-wave, and an analog output proportional to the rate or interval measurement. A convenient 60 or 120 bpm calibration signal can be selected at any time.

The wide measurement range of the CT-1000 makes it suitable for any animal. The electrically isolated input makes it safe for human use, and eliminates ground loops in sensitive recording situations. A full range of accessories is available, including pre-wired input cables and surface or needle electrodes. In summary, the CT-1000 provides a convenient and cost-effective solution for both physiological monitoring and critical heart rate variability studies.



SPECIFICATIONS: (Note 1)

Heart rate measurement range	10 - 650 bpm
Measurement resolution	± 1 bpm (HR), ± 1 ms (R-R)
Low-level input range	$\pm 100\mu\text{V}$ - $\pm 5\text{mV}$
High-level input range	$\pm 50\text{mV}$ - $\pm 5\text{V}$
ECG analog output	1.5V P-P (nominal)
Analog output scaling (Rate mode)	10mV/bpm
Analog output scaling (Interval mode)	5mV/mS
Low-level input isolation	1500V isolation, $<5\mu\text{A}$ leakage
Input connector	Amphenol 7-pin
Output connectors	BNC jack
Power requirements	$\pm 12\text{V}$ @25mA, $+5\text{V}$ @100mA
Dimensions	2.75W x 5.05H x 9D in. (7 x 12.8 x 23cm)

ORDERING INFORMATION:

<u>Part No.</u>	<u>Model</u>	<u>Description</u>	<u>Applications</u>
10-06000	CT-1000	Cardi tachometer module	Heart rate and R-R interval measurement
10-02030	BMA-931/ICA	Input cable, ECG (pin-jack termination)	Direct-connect ECG measurement
10-06011	CT-1000/HLC	Input cable, high-level (BNC jack)	Connect BP or other signals to CT-1000
10-01000	CC-1000	Six-module card-cage w/ power supply	
10-03000	PM-1000	Transducer amplifier module	Use with BP transducers
10-04100	DTX-1	BP transducer	Medical-type transducer
10-04210	TC-GRA	Required adapter cable for DTX-1	

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