



Reliable, economical performance at every level

DESCRIPTION

Choose the Philips PageWriter cardiograph that meets your clinical and fiscal requirements.

The PageWriter 100, with easy-to-use operator controls, generates reports in seconds with additional copies available at the push of a button.

PageWriter 200 and 300pi cardiographs print 12-lead ECGs in different formats and over extended periods for different clinical tests or applications. The PageWriter 300pi is Philips' economical interpretive cardiograph.

All three provide printed traces that use a continuous-feed, high-resolution digital-array printer. This provides crisp, easy-to-read electrocardiograms on standard page lengths that require no cutting or mounting. Using an alphanumeric keyboard, records are clearly labeled with ECG data and patient information.

Improved ECG Quality

The PageWriter 100, 200 and 300pi provide extensive ECG quality-control features including AC noise filtering and baseline wander correction. Additionally, the PageWriter 200 and 300pi cardiographs provide configurable filters that turn on from the keyboard to further suppress noise. Their displays allow preview of any three leads at a time to verify ECG quality before recording.

ECG Measurements

Philips' ECG measurement software is standard in PageWriter 100, 200 and 300pi cardiographs. Measurements of 12 simultaneously acquired leads result in ECG morphology and rhythm parameters. A short table is printed with HR, PR, QRSD, QT, QTc, and axis values P, QRS, and T. If desired, an extended measurements table may be generated.

ECG Interpretation

The PageWriter 300pi contains Philips' clinically proven Adult and Pediatric Analysis Programs. The Pediatric Program enables ECGs to be analyzed for patients from one hour to 15 years old. For both pediatric and adult patients, original reports and copies can include or exclude ECG measurements, interpretive statements and reasons.

Predictive Instruments

The PageWriter 300pi provides Acute Cardiac Ischemia-Time Insensitive Predictive Instrument (ACI-TIPI) and Thrombolytic Predictive Instrument (TPI) applications. ACI-TIPI calculates a predicted probability of acute cardiac ischemia. TPI predicts the probability of patient outcome for short-term mortality, long-term mortality, cardiac arrest and risk associated with thrombolytic therapy.

ECG Storage and Transmission Option

Using non-removable flash memory, PageWriter 200 and 300pi cardiographs can store up to 30 ECGs at once. ECGs can be faxed (via modem) from the cardiograph or transmitted to a Philips-compatible ECG management system for review and editing.

Specifications

Unless otherwise noted, the following specifications apply to PageWriter 100, 200 and 300pi cardiographs.

Regulatory Standards	IEC 601-1, IEC 601-2-25
Basic Controls	ECG Controls: On/Standby, Auto, Manual, Chart Speed, Size, Copy, Filter, Page Advance, ECG Format Selections
	Manual Lead Group, V Leads (PageWriter 100)
	Rhythm Lead, ID (PageWriter 200 and 300pi)
	ECG Format Selections: Auto (3 x 4 IR, rhythm lead fixed as Lead II); Manual (with 3 leads) (PageWriter 100)
	ECG Format Selections: Auto (with 0, 1 or 3 rhythm leads); Manual (with 3, 6 or 12 leads) (PageWriter 200 and 300pi)
	Keyboard with full alphanumeric capability (PageWriter 200 and 300pi). (PageWriter 100 has LED indicators for constant status display; no alphanumeric keyboard.)
Patient Safety	Patient Isolation: IEC type CF isolated patient connection
	Defibrillator Protection: Protected against damage from 400 joule defibrillation discharges (when using Philips-specified patient cable)
Instrument Test	Self-test performed each time cardiograph is turned on
	Extended tests for main instrument, printing and display functions
	Displays fault message to operator (PageWriter 200 and 300pi)
Power and Environment	Line Power: 100-120 or 220-240 V AC selectable; 50/60 Hz, 50 VA
	Environmental Operating Conditions: 10° to 40°C (50° to 104°F), 15 to 80% relative humidity, non-condensing, to 4,550 m (15,000 ft.) altitude
	Environmental Storage Conditions: 0° to 50°C (32° to 122°F), 15 to 90% relative humidity, non-condensing, to 4,550 m (15,000 ft.) altitude
Physical Specifications	Cardiograph Dimensions: 115 mm H x 437 mm W x 392 mm D (4" H x 17" W x 15" D)
	Cardiograph Weight: 8.5 kg (<19 lb.)
Signal Processing/Recording	Frequency Response: Selectable as follows (PageWriter 100) Auto: 0.05-150 or 0.15-40 Hz Manual: 0.05-150 or 0.15-40 Hz
	Frequency Response: Selectable for both auto and manual from these ranges (PageWriter 200 and 300pi) 0.05-150, 0.15-150, 0.5-150 Hz 0.05-100, 0.15-100, 0.5-100 Hz 0.05-40, 0.15-40, 0.5-40 Hz
	Filters: Noise filter. On/off capability Power line filter always enabled Configurable baseline wander, noise and artifact filters (PageWriter 200 and 300pi)
	Standardization: 1 mV ± 50 µV, 200 ms ± 4 ms at 10 mm/mV, 25 mm/sec
	Common Mode Rejection: 110 dB or greater at power line frequency in any lead with 51 KOhms in parallel with 0.047 µF electrode impedance imbalance and up to ±300 mV DC offset in any lead wire
	DC Offset Capability: ± 300 mV DC at patient input
	Input Bias: Less than 40 nA per input wire; less than 500 nA for Right Leg drive output
	Input Impedance: Greater than 15 MOhm at DC; typically greater than 100 MOhm at DC
	Recording Technique: High-resolution, digital-array printer using thermal-sensitive paper, 200 DPI (voltage axis) by 500 DPI (time axis) — 250 DPI (time axis) at 50 mm/sec

Specifications

(continued)

Battery	Capacity: 40 auto ECGs and 40 copies on a single charge or 40 minutes continuous rhythm recording
	Recharge: Typically seven hours to 90% capacity and 16 hours to full capacity
Storage (option)	Capacity: 30 ECGs (PageWriter 200 and 300pi)
	Type: 2 MB of non-removable flash memory
Transmission (option)	Serial Port: 1 RS232
	Modes: Direct Connect, Modem (PageWriter 200 and 300pi)
	Modem Command Interfaces: Data: Hayes standard AT command set Fax: EIA/TIA — 578 Service Class 1
Standard Accessories Supplied	Patient cable
	Power cord
	200 sheets of Z-fold paper
	Starter kit of adapter clips and electrodes (U.S. only)
	User's guide
	<i>Interpretive Physician's Guide (PageWriter 300pi)</i>
	<i>Predictive Instrument Physician's Guide (PageWriter 300pi only)</i>
	<i>Quick Reference Guide (PageWriter 300pi only)</i>
Accessories Available	M1705B Mobile cart for M177xA cardiographs
	M2460A Replacement battery for M177xA cardiographs
	M3702C/M3702A Replacement patient cable (AHA)
	M3703C/M3703A Replacement patient cable (IEC)
	M1706B opt ABA: Data communications package (modem) (U.S. and Canada) Modem cable Modem/TraceMaster cabling Direct Connect cable
	M2482A 200 sheets, Z-fold thermal paper without header (8.5" x 11")
	M2483A 200 sheets, Z-fold thermal paper (metric)
	M2485A 200 sheets, Z-fold thermal paper anti-fade (8.5" x 11")
	M2486A 200 sheets, Z-fold thermal paper anti-fade (metric)
	40494E Electrode, limb clamp (4/bx)
	M2253A/B Disposable tab electrodes
	M2254A Adapter clips for disposable tab electrodes
	M13943B Disposable tab electrodes
	M13946B Adapter clips for disposable tab electrodes

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Would you like to know more about our imaginative products? Please do not hesitate to contact us. We would be happy to provide specific information about our products and services, or put you on our mailing list for news about new product developments, upcoming events or for our clinical journal, MedicaMundi. We would be glad to hear from you.

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