

Poet Plus Patient Monitor

From basic vital signs monitoring to conscious sedation--simple-to-use, lightweight, and portable. This comprehensive, cost-effective solution is perfect for the bedside, in transit, and conscious sedation procedures.

Model: 8100

Custom Configurations

- Standard: ECG, ComfortCuff™ NIBP, DOX™ SpO₂, HR, Temperature, Respiration, and Nurse Call interface connection.
- Optional: CO₂, CO₂/O₂, IBP, ST analysis, printer.

Features

- Easy-to-read 10.4" active color TFT display.
- Easy to learn, easy to use – simplified menus and dedicated function keys.
- Smart battery management with rechargeable “hot-swappable” sealed lead acid batteries.
- Lightweight design and versatile mounting options – adapts readily to department and transport requirements.



Focus on your patients, not your monitor. The Poet Plus® 8100 patient monitor is the perfect choice for busy departments demanding accurate, reliable performance.

Compact and lightweight, the Poet Plus 8100 patient monitor can monitor adults, pediatrics, and neonates in virtually every department - at bedside or in transit. The innovative user interface features simplified menus and dedicated function keys for timely set-ups. The big, bright display with large numerics can easily be seen, even from across the room.

The Poet Plus 8100 patient monitor mounts quickly and easily to walls, rollstands, and bedrails.

Poet Plus Patient Monitor

Technical Specifications

ECG

Number of Leads:	3- or 5-lead
Lead View:	User-selectable; I, II, III, aVR, aVL, aVF, V (5-lead); I, II, or III (3-lead)
Gain Selection:	x1/2, x1, x2, and x4
Frequency Response:	Diagnostic: 0.05 to 100 Hz (-3db); Monitor: 0.5 to 40 Hz (-3db) ST: 0.05 to 40 Hz (-3db)
Electrosurgery Protection:	Yes
Defibrillator Protection:	Yes
Pacer Detection/Rejection:	Yes
ST Accuracy:	±2mm or ±5% of reading, whichever is greater, over heart range of 30 to 120 bpm
ST Range:	-6.0 to +6.0 mm

Non-Invasive Blood Pressure

Technique:	Oscillometric measure upon inflation
Auto. Measurement Cycles:	2, 3, 5, 10, 15, 30 min; 1, 2, 4 hr
Max. Allowable Cuff Pressure:	Adult: 300 mmHg; Neonate: 150 mmHg
Adult Range:	30-250mmHg
Neonate Range:	30-150mmHg
Resolution:	1mmHg
Transducer Accuracy:	±2mmHg or ±2% of reading, whichever is greater, over full range
STAT mode:	5 min of consecutive readings

Pulse Oximetry

Range:	1% to 99%
Resolution:	1%
Accuracy:	70% to 99% range: ±2%; 50% to 69% range: ±3%; <50%: unspecified
Method:	Dual wavelength LED

Heart (Pulse) Rate

Source:	User selectable: Smart, ECG, IBP, Pleth, NIBP
Range:	20 to 300bpm (30-240bpm, NIBP)
Accuracy:	±1bpm or ±1% (ECG), whichever is greater

Temperature

Channels:	2
Range, Accuracy:	68° to 113° F (20° to 45° C): ±0.1° C
Display Resolution:	±0.1°
Probe:	YSI-400 and YSI-700 series

Respiration

Rate:	6 to 150 breaths/min
Resolution:	1 breath/min
Accuracy:	±1% or ±1 breath/min, whichever is greater
Source:	User selectable: Smart, CO ₂ , ECG-TTI

CO₂

Units:	mmHg; %; kPa; Torr
Waveform Scale:	0 to 3.13%, 0 to 6.25%, 0 to 12.5%, and 0 to 25%
Method:	Non-dispersive infrared; autocalibrating
N ₂ O Compensation:	Manual; On/Off, user selectable
Range:	0 to 99mmHg; 0 to 12.5%; 0 to 12.5 kPa; 0-99 Torr
Resolution:	1mmHg; 0.1%; 0.1 kPa; 1 Torr
Sample Rate:	Sidestream; selectable: 150ml/min or 50ml/min
Accuracy:	±2mmHg, ±0.3 volume %, ±0.3 kPa, or ±2 Torr at 150ml/min and respiratory rate of ≤ 35 breaths/min
Rise Time:	350ms (10-90%) at 150ml/min

O₂

Numeric Display:	Inspired, expired
Method:	Oxidation-reduction galvanic cell
Range:	0 to 100%
Resolution:	1%
Accuracy:	± 3 vol% (for 0-90%), ± 4 vol% (for 91-99%)
Rise Time:	600ms (10-90%) at 150ml/min

Invasive Blood Pressure

Channels:	2
Transducer Sites:	Selectable: ART, PA, LV, RV, LA, RA, CVP, ICP
Pressure Range:	-10mmHg to 300mmHg
Transducer:	Freq. Response 0 to 20Hz; Sensitivity 5µV/mmHg; Impedance >300 ohms
Accuracy:	±1mmHg or ±1%, whichever is greater

Alarms

Indication:	Audible; visual (EN475)
Silence:	Yes; 2 minutes or permanent

Trends

Memory:	24 hr at 30 second intervals
Display:	Tabular, Graphical

Display

Screen:	10.4" active color TFT
Resolution:	640 x 480 pixels
Waveforms:	6, maximum
Waveform Types:	ECG leads I, II, III, aVR, aVL, aVF, V; CO ₂ ; O ₂ ; Respiration; IBP; Pleth; breath-by-breath CO ₂ , ST Histograms
Sweep Speed:	6.25, 12.5, 25, 50mm/sec
Languages:	English, French, German, Italian, Portuguese, Spanish

Controls

Keys:	9; membrane-activated
Rotary knob:	Push and rotate; 24 steps/turn

System Outputs

Com Ports:	RS 232-compatible; DB9 (Com1); mini-din analog (Com 2)
Nurse Call:	Contact switch; 3.5mm stereo phone jack, 14mm length
Defib/Sync:	BNC connector
Video Port:	High density D-sub 15-pin

Printer

Type:	Thermal line printer
Paper Speed:	12.5, 25, 50 mm/sec

Physical Properties

Weight:	12 lb; 5.45kg (without batteries)
Size:	13.3" (H) x 12.5" (W) x 8.8" (D); 33.7cm (H) x 31.8cm (W) x 22.2cm (D)

Power Requirements

Voltage:	100, 120, 220, 240 VAC; 50/60 Hz
Power Consumption:	35 W, typical
Batteries:	2 sealed lead acid; life: 2 hr, typical; recharge time: 4.5 hr

Environmental

Operating Temperature:	59° to 95° F; 15° to 35° C
Storage Temperature:	23° to 122° F; -5° to 50° C
Operating Humidity:	15% to 90%, noncondensing

Classification

Type of Protection:	Class I equipment
Degree of Protection:	Type CF, Defibrillator-proof
Safety:	EN 60601-1



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