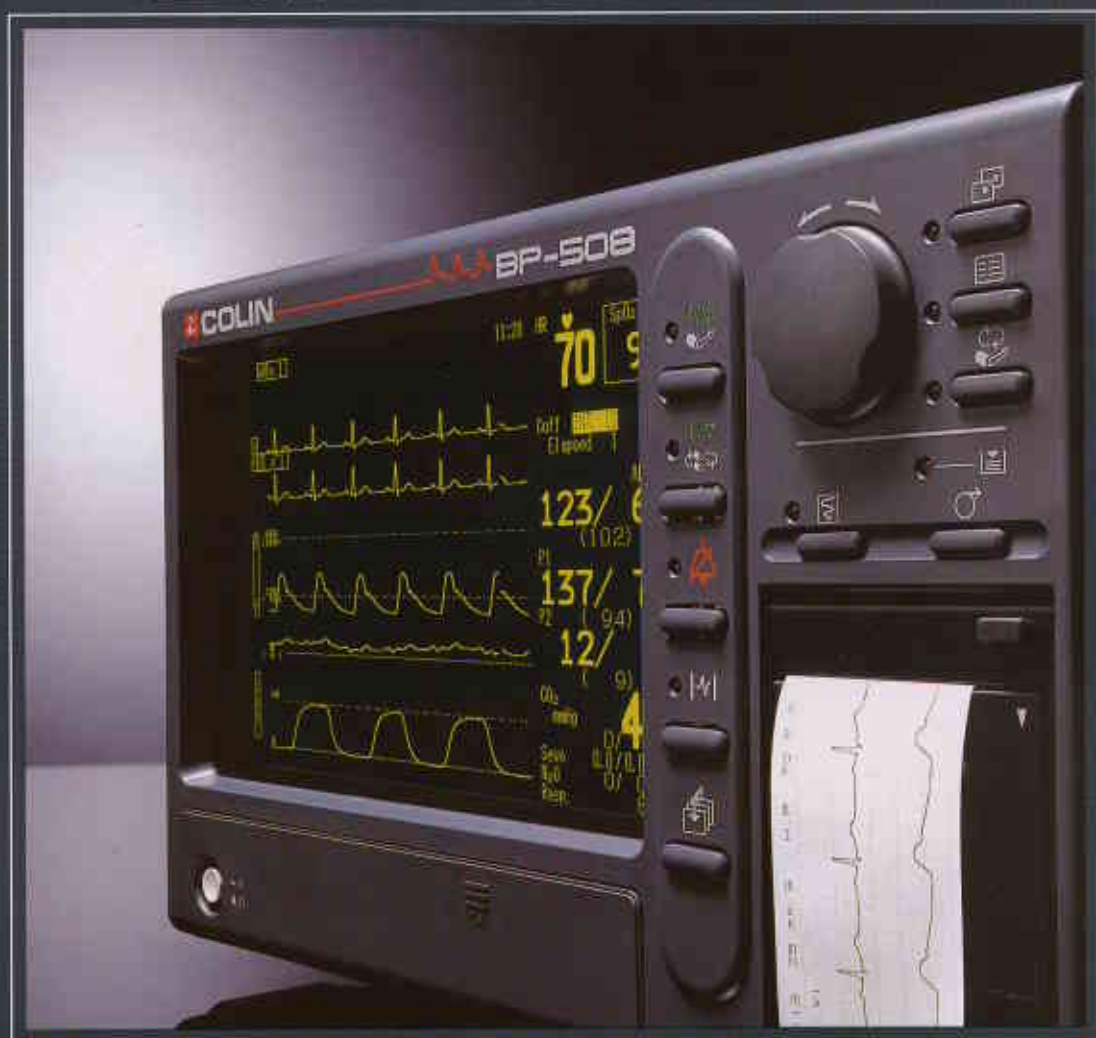


ONE for ALL

TOTAL PATIENT MONITORING
FROM E.C.G.
AIRWAY GAS ANALYSIS
TO BLOOD PRESSURE MONITORING.

PATIENT MONITOR

BP-508



 **COLIN**

MAIN APPLICATION AREA
OPERATING ROOM · RECOVERY ROOM · ICU · CCU · EMERGENCY ROOM

BP-508 TECHNICAL SPECIFICATIONS

Display

Electroluminescence (EL)	640 x 400 dots
Screen Size	9 inches
Monitoring Traces	6 traces
Sweep Speed	ECG : 25mm/sec. IBP : 25mm/sec. TBP : 25mm/sec. Pleth : 25mm/sec. CO ₂ : 12.5mm/sec. (selectable) 6mm/sec.
Trend Time Duration	1, 3, 6, 12, 24 hours (selectable)

Non-Invasive Blood Pressure (NIBP)

Measurement Method	Oscillometric Method
Pressure Detection	Semi-conductor Pressure Sensor
Pressure Display Range (Adult/Pediatric mode)	0, 10 to 300mmHg
(Neonatal mode)	0, 5 to 150mmHg
Pulse Rate Display Range (Adult/Pediatric mode)	40 to 200bpm
(Neonatal mode)	40 to 240bpm
Standard	EN 60601-2-30 (1995), EN 1060-1 (1995) EN 1060-3 (1997)

Electrocardiogram (ECG)

Leads	3 Leads, 5 Leads (selectable)
Filter	Monitor (0.3Hz.) or Extended (0.05Hz.) (selectable)
Heart Rate Display Range	0, 30 to 300bpm
Standard	EN 60601-2-27 (1994)

Body Temperature

Measurement Method	Thermistor
Measurement Range	15°C to 45°C
Measurement Probe	YSI Model 400, 700 series (selectable)

Invasive Blood Pressure

Measurement Method	Pressure Transducer Method
Measurement Range	Pressure: -50 to 300mmHg P.R. :30 to 250bpm
Standard	EN60601-2-34 (1995)

Recorder

Print Head	Thermal Line
Recording Speed	waveform print 6.25, 12.5, 25mm/sec. (selectable)
Paper Length	30m (Folded Paper offered from COLIN)

Environmental Conditions

Power Requirement	AC 220~240V, 50/60Hz
Power Consumption	MAX. 190VA (type ATS)
Safety Standard	EN 60601-1: (1990 + A1:1993 A2:1995)
Protection Class	Class I
Physical Dimensions	350(W) x 200(H) x 354(D)mm
Weight	18.5kg (Type ATS)
Operating Temperature	10°C to 40°C 15°C to 40°C (CO ₂ , AG Module) -20°C to 70°C
Storage Temperature	30 to 85% (non-condensing)
Operating Humidity	30 to 95% (non-condensing)
Storage Humidity	EN60601-1-2 (1993), CISPR11 (1990) Class B
EMC (Electromagnetic Compatibility)	EN60601-1: (1990 + A1:1993 A2:1995)
Safety Standard	MD93/42/EEC classification : class II b
Classification	

Accessories

Standard Accessories	REF.	Qty.
Description		
AC Power Cord	N/A	1
ECG Cable No.7	AY1004	1
ECG 5-Lead Wires No.6 (G.R.Y.W.B)	AG1003	1
Cuff No.2 (9cm)	A012ZZ	1
Cuff No.3 (12cm)	A013ZZ	1
Cuff Hose No.1 (3.5m)	A015ZZ	1
Fold Paper No.7	AR004Z	2
Vinyl Dust Cover (BP-508)	AC003Z	1
Operation Manual	N/A	1
Optional Accessories	REF.	
Description		
ECG 3-Lead Wires No.5 (G.R.Y.)	AG1002	1
ECG Electrodes 25pcs/bag (produced by 3M)	AG006Z	1
Cuff No.1 (7cm)	A011ZZ	1
Cuff No.4 (14cm)	A014ZZ	1
Cuff No.10 (2.5cm)	AL021Z	1
Cuff No.11 (3cm)	AL022Z	1
Cuff No.12 (4cm)	AL023Z	1
Cuff No.13 (5cm)	AL024Z	1
Cuff Hose No.2 (1.5m)	A016ZZ	1
Cuff Hose No.3 (3.5m) N	AL012Z	1
Grounding Wire Type-1	A023ZZ	1
Grounding Wire Type-2	A024ZZ	1
Service Manual	AN005Z	1

OPTIONAL MODULES

SpO₂ Module (Oxygen Saturation)

Measurement Method	2 wave length pulse wave type
Measurement Range	SpO ₂ :50 to 100% P.R.:20bpm to 250bpm
Standard	EN865 (1997)

Standard Accessories	REF.	Qty.
Description		
SpO ₂ DURA-Sensor Model DS-100A	AS013Z	1
SpO ₂ Extension Cable EC-8	AS019Z	1
Optional Accessories	REF.	
Description		
SpO ₂ Disposable Sensor Model D-25	AS014Z	1
SpO ₂ Disposable Sensor Model D-20	AS015Z	1
SpO ₂ Disposable Sensor Model N-25	AS016Z	1
SpO ₂ Disposable Sensor Model I-20	AS017Z	1
SpO ₂ Disposable Sensor Model R-15	AS018Z	1

Produced by NELLCOR PURITAN BENNETT

TBP Module (Tonometry Blood Pressure)

Measurement Method	Tonometry Method
Display Amplitude	5.0cm

Standard Accessories	REF.	Qty.
Description		
SA-250 Sensor	040271	1
Patient Module	040381	1
Wrist Brace	AP003Z	1
Optional Accessories	REF.	
Description		
Jentow Cushion	AP004Z	1

CO₂ Module

Measurement Method	Non Dispersive Infrared by Side Stream
Measurement Range	CO ₂ : 0 to 80mmHg or 0 to 10.5% N ₂ O : 0 to 100% R.R. : 0 to 60/min (Flow Rate 200ml/min) 0 to 25/min (Flow Rate 65ml/min)

Measurement Accuracy	CO ₂ : 0 to 20mmHg/±1.0mmHg 20.1 to 40mmHg/±1.5mmHg 40.1 to 60mmHg/±2.0mmHg 60.1 to 80mmHg/±2.5mmHg N ₂ O : ±1.5% or actual value ±7.0% whichever is greater
----------------------	---

Standard	REF.	Qty.
EN864 (1997)		
Standard Accessories	REF.	Qty.
Description		
Water Trap	C005ZZ	1
Sampling Tube	C004ZZ	3
Nafion Tube	C003ZZ	3
Air Way Adapter	C002ZZ	3
Sampling Filter Set (w/Sampling By-pass Tube)	C006ZZ	1
Optional Accessories	REF.	
Description		
Nasal Sampling Tube (Adult)	C007ZZ	1
Nasal Sampling Tube (Pediatric)	C008ZZ	1
Scavenging Tube	C009ZZ	1
Sampling Set (Air Way Adapter, Nafion Tube & Sampling Set/set)	C010ZZ	1
Water Trap Set (Water Trap & Sampling Set/set)	C000ZZ	1

AG/CO₂ Module

Measurement Method	Non Dispersive Infrared by Side Stream
Measurement Range	CO ₂ : 0 to 80mmHg or 0 to 10.5% N ₂ O : 0 to 100% Agent : 0 to 7.5% (Halothane, Enflurane, Isoflurane) 0 to 9.0% (Sevoflurane) 0 to 20.0% (Desflurane)

Measurement Accuracy	R.R. : 0 to 60/min (Flow Rate 200ml/min) 0 to 25/min. (Flow Rate 65ml/min) CO ₂ : 0 to 40mmHg/±1.5mmHg 0 to 5.2%/±0.2% 40.1 to 60mmHg/±2.5mmHg 5.3 to 7.9/±0.3% 60.1 to 80mmHg/±4.0mmHg 8.0 to 10.5/±5.0% N ₂ O : ±1.5% or actual value ±5.0% Agent : ±0.1% or actual value ±4.0% which is greater (Isoflurane, Enflurane, Sevoflurane) ±0.2% or actual value ±4.0% whichever is greater (Halothane) ±0.1% or actual value ±6.0% whichever is greater (Desflurane) ±0.4% (Halocarbon 22)
----------------------	--

Standard	REF.	Qty.
EN864 (1997)		
Standard Accessories	REF.	Qty.
Description		
Water Trap	C005ZZ	1
Sampling Tube	C004ZZ	3
Nafion Tube	C003ZZ	3
Air Way Adapter	C002ZZ	3
Sampling Filter Set (w/Sampling By-pass Tube)	C006ZZ	1
Optional Accessories	REF.	
Description		
Nasal Sampling Tube (Adult)	C007ZZ	1
Nasal Sampling Tube (Pediatric)	C008ZZ	1
Scavenging Tube	C009ZZ	1
Sampling Set (Air Way Adapter, Nafion Tube & Sampling Set/set)	C010ZZ	1
Water Trap Set (Water Trap & Sampling Set/set)	C000ZZ	1