

SPECIFICATIONS

MULTI-PARAMETER MONITOR WITH WAVEFORM DISPLAY, Model MPM-1

Pressure Sensor Type	Fiberoptic pressure transducer
Pressure Measurement Range (ICP)	-10 to +250 mmHg pressure, Resolution of 1 mmHg
High ICP Alarm	0 to 250 mmHg, 1 mmHg increments
Low CPP Alarm	0 to 150 mmHg, 1 mmHg increments
Temperature Sensor Type	Thermistor transducer
Temperature Measurement Range	16.7°C to 42.2°C (65°F to 108°F), Accuracy of $\pm 0.3^\circ\text{C}$ (0.5°F)
Mean Cerebral Perfusion Pressure (CPP) Range	0 to 200 mmHg, Resolution of 1 mmHg
Linearity and Hysteresis	See individual Catheter specifications
Reference Pressure	Atmospheric
Display	Backlit TFT active matrix LCD panel display of pressure waveform, numeric pressure, cerebral perfusion pressure, temperature, systolic and diastolic values
Analog Output	1V/100 mmHg
RS232 Use	Data acquisition may be accomplished using the SERIAL DATA CAPTURE program, PN MPM-1-SDC. For details contact Integra NeuroSciences.
External Monitor Output	5 $\mu\text{V/V}$ / mmHg
External Monitor Input (Arterial Pressure)	1V/100 mmHg
Battery Type	Rechargeable, sealed lead acid
Charge Time	8-10 hours to full charge
Operation Time	1-2 hour from full charge
Operating Temperature	15°C to 40°C
Operating Pressure	700 hPa to 1060 hPa
Operating Humidity	20% to 95% RH
Shipping/Storage Temperature	0°C to 50°C
Shipping/Storage Pressure	500 hPa to 1060 hPa
Shipping/Storage Humidity	20% RH to 95% RH non-condensing
Power Requirement	100-230 V, 50/60 Hz, 50 VA
Dimensions	274 mm H x 216 mm W x 89 mm D (10.8" x 8.5" x 3.5")
Class of Equipment (IEC 60601-1)	Class 1
Protection Against Fluids (IEC 60601-1)	Ordinary
Mode of Operation	Continuous
Weight	4.4 kg (9.8 lbs.)

CE Mark obtained 1998



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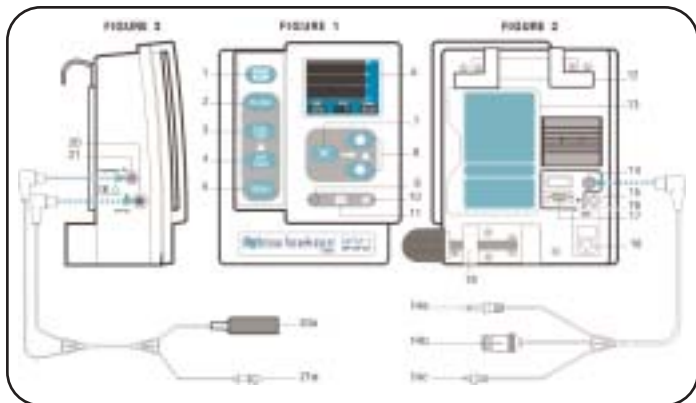
MULTI-PARAMETER MONITOR WITH WAVEFORM DISPLAY MODEL MPM-1

DIRECTIONS FOR USE

Read carefully prior to use



CAUTION: FEDERAL (U.S.A.) LAW RESTRICTS THIS DEVICE
TO SALE BY OR ON THE ORDER OF A PHYSICIAN.



FRONT PANEL (See Figure 1)

1. **START/STOP** - Press to turn MPM-1 on or off.
2. **SCALE** - Press to change scale of pressure waveform on MPM-1 display. Each press advances the scale through a range of -10 to 200 mmHg.
3. **CAL STEP** - Used to calibrate or check correlation of external bedside monitor. Press and hold to momentarily interrupt normal pressure display and substitute an artificially-generated pressure signal, which will appear on both the MPM-1 display and on the external bedside monitor. Each press advances to the next mmHg value in the following series: 0, 20, 40, 100, 200 and back to 0.
4. **SYS/DIAS** - Press to toggle between the CPP, ICP, ICT (cerebral perfusion pressure, intracranial pressure, intracranial temperature) display and the SYSTOLIC, ICP, DIASTOLIC (cranial systolic, mean intracranial pressure and cranial diastolic values) display.

5. **TREND** - Press to graphically display the last 12 hours of ICP, CPP values on the MPM-1 display. Press again to display the last 24 hours of ICP, CPP values. Press again to return to the pressure display.
6. **LCD Display** - Displays ICP waveform (in mmHg), cerebral perfusion pressure (CPP in mmHg), mean intracranial pressure (ICP in mmHg), intracranial temperature (ICT in degrees C), systolic and diastolic values and trend data.
7. **SILENCE ALARM** - Press to silence the alarms for 3 minutes.
8. **UP and DOWN** - Press the UP or DOWN arrows to set or disable the ICP and/or CPP alarms.
9. **ALARM DISABLED Indicator** - Illuminates when both the ICP and CPP alarms are set to OFF. Flashes when either alarm is temporarily silenced.

INTEGRA NEUROSCIENCES LIMITED WARRANTY

INTEGRA NEUROSCIENCES warrants that each new INTEGRA NEUROSCIENCES product is free from defects in material and workmanship under normal use and service for a period of two (2) years (except as otherwise expressly provided as to accessory items) from the date of delivery by INTEGRA NEUROSCIENCES to the first purchaser but not beyond the "Expiration" date stated on any product labeling. Surgical instruments are guaranteed to be free from defects in material and workmanship when used normally for their intended purpose. Any covered product which is placed by INTEGRA NEUROSCIENCES under a lease, rental or installment purchase agreement and which requires repair services during the term of such placement agreement shall be repaired in accordance with the terms of such agreement. If any such defect occurs during the warranty period or term of such placement agreement, the purchaser should communicate directly with the INTEGRA NEUROSCIENCES home office. If returned to INTEGRA NEUROSCIENCES at its home office, repair or replacement will be carried out at INTEGRA NEUROSCIENCES sole discretion, at INTEGRA NEUROSCIENCES subject to the terms of this warranty and applicable agreements. The defective product should be returned promptly, properly packaged and postage prepaid. Loss or damage in return shipment to INTEGRA NEUROSCIENCES shall be at CUSTOMER's risk.

IN NO EVENT SHALL INTEGRA NEUROSCIENCES BE LIABLE FOR ANY INCIDENTAL, INDIRECT OR CONSEQUENTIAL DAMAGES IN CONNECTION WITH THE ACQUISITION OR USE OF ANY INTEGRA NEUROSCIENCES PRODUCT. Further, this warranty shall not apply to, and INTEGRA NEUROSCIENCES shall not be responsible for, any loss arising in connection with the purchase or use of any INTEGRA NEUROSCIENCES product which has been repaired by anyone other than an authorized INTEGRA NEUROSCIENCES service representative or altered in any way so as, in INTEGRA NEUROSCIENCES judgment, to affect its stability or reliability, or which has been subject to misuse, negligence or accident, or which has been used otherwise than in accordance with the instructions furnished by INTEGRA NEUROSCIENCES. This limited warranty is exclusive and in lieu of all other warranties, express or implied, and of all other obligations or liabilities on INTEGRA NEUROSCIENCES part and INTEGRA NEUROSCIENCES neither assumes nor authorizes any representative or other person to assume for it, any other liability in connection with INTEGRA NEUROSCIENCES products.

INTEGRA NEUROSCIENCES DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR APPLICATION OR WARRANTY OF QUALITY, OTHER THAN THOSE EXPRESSLY SET FORTH IN THE PRODUCT LABELING, INCLUDING THE APPLICABLE USER INFORMATION.

CUSTOMER SERVICE/RETURNS

Periodic preventive maintenance, performed by qualified technical personnel, as trained by Integra NeuroSciences, is necessary to ensure proper functioning and calibration of the Model MPM-1 and the Preamp cable. The recommended maintenance cycle is 18 months. The date on which the next maintenance is due can be found on the back panel of the unit. It is important that the user review the next maintenance date on the back panel at least every 6 months to verify that the monitor is still within the recommended maintenance period. Contact Integra NeuroSciences Customer Service or your local distributor to make arrangements for the return of the unit. Follow local governing ordinances and recycling plans regarding disposal or recycling of device or components.

If the MPM-1 fails to perform as specified, and the cause cannot be determined, do not use or attempt to repair it. For technical assistance, monitor and accessory exchanges, contract information, and other ordering information, contact your Neurospecialist, local distributor, or Integra NeuroSciences Customer Service. Should it be necessary to return your MPM-1 Monitor, contact Customer Service for return authorization and instructions. Please include a description of the type of information desired, and details of any difficulties you may have experienced.

Direct all inquiries to Integra NeuroSciences at:

Customer Service/Technical Service
Plainsboro, New Jersey, USA

Phone: (800) 654-2873 USA/Canada
(609) 275-0500 (Outside USA)

Fax: (609) 275-5363

Customer Service/Technical Service
Andover, Hampshire, England

Phone: +44 (0) 1264 345 700
Fax: +44 (0) 1264 332 113

Integra NeuroSciences cannot assume responsibility for loss or damage to returned equipment while in transit.

10. AC Power Indicator - Illuminates when MPM-1 is connected to AC power. The battery will charge whenever this indicator is illuminated.

11. Low BATTERY Indicator - Illuminates when MPM-1 is operating on Battery power and less than fifteen minutes battery life remains. **NOTE:** Connect to AC power as soon as possible to prevent loss of trend data and to maintain battery charge.

BACK PANEL (See Figure 2)

12. COMBINATION CORD WRAP, HANDLE, and BED RAIL HOOK

13. DFU POCKET - Storage location for the Directions for Use booklet.

14. BEDSIDE MONITOR CONNECTOR - Used for connection to the bedside monitor.

14a. ICT data to Bedside Monitor Standard Phone Plug

14b. ICP Waveform to Bedside Monitor 6-Pin Cannon Connector

14c. Arterial Pressure Data from Bedside Monitor Miniature Phone Plug

15. EQUIPOTENTIAL CONNECTOR - Used as the connection point for equipotential systems.

16. ICP ISOLATED ANALOG CONNECTOR- Used for data acquisition needs. Requires 0.141" miniature audio male plug (Switchcraft™ Model 750), tip positive, shank negative. Output is the standard 1V/100 mmHg.

17. RS232 CONNECTOR - Data Acquisition Port may be connected to a personal computer running WINDOWS 95 (or compatible) operating system which uses the application program

SERIAL DATA CAPTURE, PN MPM-1-SDC to view the data.

18. AC CONNECTOR - Attachment point for the AC power cord. Automatically select input AC voltage of 100, 115 or 230 Volts. Must be plugged into an AC source whenever it is desired to maintain a charge on the internal battery.

19. POLE CLAMP - Used to secure the MPM-1 to an equipment pole.

SIDE PANEL (See Figure 3)

20. ICP CONNECTION - Attachment point for the Preamp Cable Connector.

20a. ICP Catheter to Preamp connection.

21. TEMPERATURE CONNECTION - Attachment point for the Temperature Cable Connector.

21a. ICT Catheter temperature connection.

EXPLANATION OF SYMBOLS



Low Battery, when illuminated



Caution, refer to Directions for Use



Type BF Equipment



Stand-by Mode (Start/Stop)



AC Power, when illuminated



Alarm Disabled, when illuminated. Flashing during temporary disable period.



Increase ICP Alarm Limit Value (adjustment to a maximum).



Decrease ICP Alarm Limit Value (adjustment to a minimum).



Silence Alarm



Equipotential Terminal

MPM-1 SYSTEM DESCRIPTION

The Integra NeuroSciences Multi-Parameter Monitor with Waveform Display MPM-1 is a compact, portable device for use with Camino 110-4 series of Pressure/Temperature and Pressure Transducer-Tipped Catheters. Pressure and/or Temperature are measured at the Catheter tip, eliminating the need for external transducers, fluid, pressure tubing, and flush devices. The MPM-1 displays intracranial pressure (ICP), intracranial temperature (ICT), and calculates cerebral perfusion pressure (CPP) (CPP=mean arterial pressure - mean intracranial pressure).

The MPM-1 provides a continuous display of the ICP waveform, as well as mean ICP, CPP, ICT, or systolic and diastolic values. A continuous record of mean pressure and CPP values over the most recent 24-hour period is stored in memory, and can be displayed on command as a TREND either as the most recent 12 or 24 hour period.

Outputs for ICP and ICT are available for use with patient bedside monitors. An isolated analog output provides a continuous ICP waveform for hard copy documentation or data acquisition. An input to receive mean arterial pressure from a compatible patient bedside monitor is available for use when it is desired to have a CPP reading. The mean arterial pressure cannot be acquired from a non-invasive blood pressure cuff. Although the MPM-1 is intended to be a stand alone system, it also conveniently connects to hospital bedside monitoring systems. A built-in rechargeable battery permits monitoring during patient transport.

PLEASE READ DANGER AND CAUTION SECTIONS ON PAGE 12 BEFORE PROCEEDING WITH MPM-1 SET-UP AND OPERATION

MPM-1 SET-UP

1. Carefully unpack the MPM-1, Power Cord, and Cables. Check, prior to each use to be sure each item is undamaged.
2. The MPM-1 may be placed on an appropriate table, or, if desired, the unit may be hung on a bed rail, or mounted on an equipment pole and tightened using the **POLE CLAMP (See Figure 2)**.

NOTE: The MPM-1 **POLE CLAMP** can accommodate equipment poles up to 1.2" O.D. Make sure MPM-1 is properly attached to equipment pole and securely tightened. The MPM-1 **BED RAIL HOOK** will accommodate a bed rail up to 2" O.D.

3. If desired, connect the MPM-1 to an external bedside monitor system, using connectors 14a, 14b, 14c as required (**Figure 2**). Ensure that the necessary connectors and modules are available prior to patient usage. Call Integra NeuroSciences Customer Service or your Neuro Specialist with questions.

4. Connect the MPM-1 equipotential connector to the equipotential system, if required.

5. Insert the Power Cord into the AC CONNECTOR on the back panel of the MPM-1 (**Figure 2**). Then insert the Plug into a grounded AC outlet.

CLEANING AND STERILIZING

The MPM-1 Preamp Cable can be sterilized with ethylene oxide.

It is a good practice to periodically clean the MPM-1 outer surfaces by wiping with a soft, clean cloth that has been dampened with warm water, or a general non-staining chemical disinfectant. Refer to the Housekeeping, Central Services, or Infection Control departments in your facility for further information.

DANGER - Risk of explosion if used in the presence of flammable anesthetics.

CAUTIONS

- Do not autoclave or immerse the MPM-1 as damage may occur. If the MPM-1 is exposed to liquids, turn off the unit, remove the power cord and thoroughly dry the unit before reapplying power.
- Do not use solvents or cleaning agents as they could damage the plastic exterior of the MPM-1.
- To reduce the risk of electric shock do not remove cover. Refer servicing to qualified service personnel.
- Read Directions for Use before connecting to bedside patient monitors.
- Grounding reliability can only be achieved when connected to Hospital Grade Receptacle.
- Where the integrity of the external PROTECTIVE EARTH CONDUCTOR arrangement is in doubt, the equipment shall be operated from its internal electrical power source (battery).
- This equipment should not be used with high frequency surgical equipment
- Integra NeuroSciences Catheters are for single use only. Do not attempt to resterilize or reuse. Integra NeuroSciences cannot assume any responsibility for damage caused by resterilized Catheters. Used catheters should be considered as a potential biohazard, follow all established laws and regulations pertaining to the handling and disposal of biohazardous materials.

Accessory equipment connected to the analog and digital interfaces must be certified to the respective IEC standards (i.e. EN 60601-1 for medical equipment). Furthermore all configurations shall comply with the system standard EN 60601-1-1. Anyone who connects additional equipment to the signal input part or signal output part configures a medical system, and is therefore responsible that the system complies with the requirements of the system standard EN 60601-1-1. If in doubt, consult the technical service department or your local representative.

This equipment has been tested and found to comply with the limits for medical devices under EN 60601-1-2. However, there is no guarantee that interference will not occur in a given situation. If this equipment causes harmful interference or is subject to harmful interference, the user may be able to correct the situation using the following measures:

- Reorient or relocate the device and other devices in the vicinity.
- Connect the device to an outlet on a circuit different from other devices.
- Consult the manufacturer or distributor for further assistance.

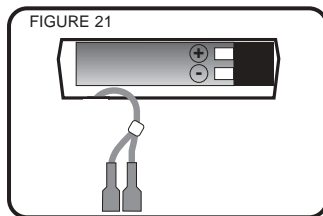
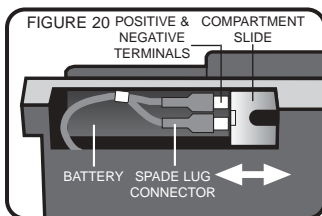
MPM-1 BATTERY REPLACEMENT PROCEDURE

This procedure is to be performed by a qualified person.

CAUTION

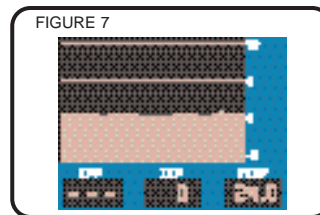
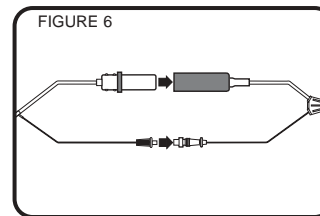
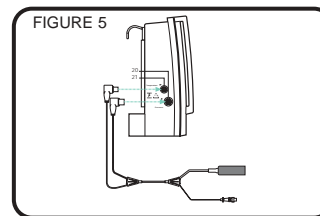
Ensure that the unit is turned off and the power cord has been removed from the unit before attempting this procedure.

- Using a flat bladed screwdriver, carefully lift off the battery compartment door, by inserting the screwdriver into the battery compartment notch and twisting.
- Move the metal battery compartment slide in the direction indicated to open (Figure 20).
- Carefully remove the spade lug connectors from the positive and negative terminals by grasping only the spade lug connectors, not the attached wire.
- Gently slide the battery out of the battery compartment.
- Replace the battery in the battery compartment.
- Ensure that the terminal side of the battery is on the right hand side (Figure 21). While observing polarity, reconnect the spade lug connectors to the battery terminals. The "+" wire to the positive terminal and the "-" wire to the negative terminal.
- Move the metal battery compartment slide in the direction indicated until it is closed (Figure 20).
- Replace the battery compartment door and snap into place.
- Dispose of old battery properly, per applicable federal and local regulations.

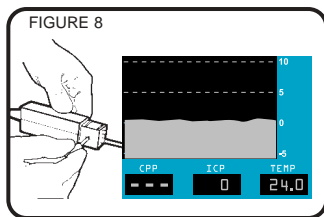


MPM-1 OPERATION

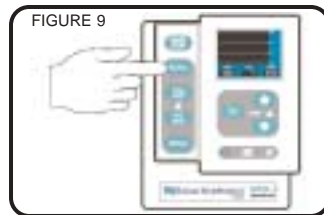
- Turn on the MPM-1 by pressing the **START/STOP** button on the front panel. The MPM-1 will display the "Integra NeuroSciences, Camino" logo (Figure 4).
- Connect the Preamp Cable to the MPM-1 by inserting the two cable connectors in the appropriate receptacle (Figure 5).
- Select the desired Camino Pressure Monitoring Kit. Specific Directions for Use may be found with each Pressure Monitoring Kit.
- Remove the Catheter from the Kit tray and firmly connect the Transducer Connector(s) into the Preamp Connector(s) (Figure 6). (If a pressure only catheter is used, then the temperature input connector will remain unconnected). After a short system test, the MPM-1 Display will change to the CPP, ICP, ICT display (Figure 7).



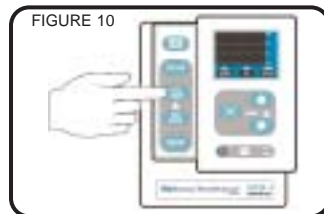
5. Before inserting the Catheter into the patient, ensure that the MPM-1 Display indicates an ICP Pressure of "0 mmHg." If not, use the tool from the Catheter Kit to turn the zero adjustment on the bottom side of the Transducer Connector until the ICP Pressure indicates "0 mmHg" (Figure 8). Also ensure that the temperature is a reasonable value, such as room temperature, before insertion of the Catheter into patient.



6. After the Catheter has been inserted into the patient (see the Catheter Directions for Use for proper insertion technique), select the appropriate scale by repeatedly pressing the **SCALE** button on the MPM-1 front panel (Figure 9).



7. If the MPM-1 is connected to an external bedside monitor, the **CAL STEP** button (Figure 10) may be used to calibrate or balance the bedside monitor. Each press advances to the next mmHg value in the following series: 0, 20, 40, 100, 200 and back to 0. The **CAL STEP** momentarily interrupts normal pressure display and substitutes a calibration pressure signal on both the MPM-1 and on the external bedside monitor. Press the **CAL STEP** button repeatedly until 0 mmHg is displayed on the MPM-1. While keeping the button depressed to maintain 0, simultaneously zero the bedside monitor, wait until the bedside monitor responds, then release the **CAL STEP** button. Within a few seconds the MPM-1 will return to the pressure display. Note that the **CAL STEP** button may be used at any time, and does not affect the transducer calibration.



MPM-1 TROUBLESHOOTING (continued)

SYMPTOM	REMEDY
ICT reads: "- - -"	<ul style="list-style-type: none"> • ICP only catheter in use (No ICT signal) • Check connection between Catheter Temperature Connector, Preamp Cable and MPM-1 • Replace Preamp Cable • Replace MPM-1 • Replace Catheter with a new ICP/ICT Catheter • Value outside operating range (16.7°C to 42.2°C)
CPP reads: "- - -"	<ul style="list-style-type: none"> • No Arterial Pressure signal • Check connection between Bedside Monitor and MPM-1 • Check connection between Catheter, Preamp Cable and MPM-1 • Replace Bedside Monitor Cable • Replace Preamp Cable • Replace MPM-1 • Replace Bedside Monitor • Replace Catheter • MAP reading cannot be acquired from a non-invasive blood pressure cuff • Value outside operating range 0 mmHg to 210 mmHg

MPM-1 TROUBLESHOOTING

SYMPTOM	REMEDY
Display will not turn on.	<ul style="list-style-type: none"> Verify power cord is plugged into a live AC power source.
Will not operate on battery.	<ul style="list-style-type: none"> Connect to AC power for approximately 8 to 10 hours to fully charge battery. The MPM-1 may be used on AC power while charging.
Low BATTERY Indicator illuminated.	<ul style="list-style-type: none"> Press SCALE button to change scale.
Waveform off screen or too small.	<ul style="list-style-type: none"> Check connection between Catheter, Preamp Cable and MPM-1 Replace Preamp Cable Replace MPM-1 Replace Catheter
MPM-1 Display reads: "CHECK CATHETER CONNECTION"	<ul style="list-style-type: none"> Check connection between Catheter and Preamp Cable Check connection between Preamp Cable and MPM-1 Replace Preamp Cable Replace MPM-1 Replace Catheter Value outside operating range -50 mmHg to 300 mmHg
ICP, Systolic or Diastolic reads: "- - -"	<ul style="list-style-type: none"> Check connection between Catheter and Preamp Cable Check connection between Preamp Cable and MPM-1 Replace Preamp Cable Replace MPM-1 Replace Catheter Value outside operating range -50 mmHg to 300 mmHg

8. Press the **SYS/DIAS** button to toggle between CPP, ICP, ICT and SYS, ICP, DIAS displays.

9. Press the **TREND** button to display the mean ICP and CPP values recorded during the preceding 12 hours (**Figure 11 or 12**). With the next press of the trend button, the mean ICP and CPP for the preceding 24 hours will be displayed. Press again to return to the pressure display. To clear trend, turn MPM-1 off momentarily.

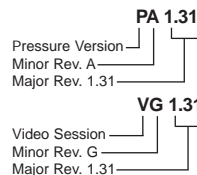
NOTE: The trend information will be lost if the MPM-1 is turned off or if the battery discharges completely and the MPM-1 turns itself off, or if the catheter is disconnected from the monitor.

NOTE: ICT and CPP values will be displayed **ONLY** when using the appropriate Catheter and/or bedside monitor input connections.

NOTE: When not in use, the MPM-1 must be connected to AC power to maintain battery charge.

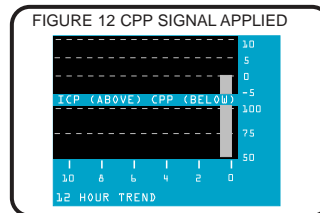
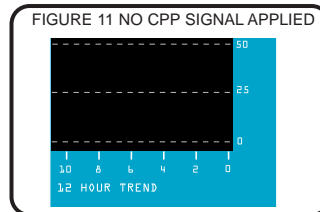
TO DISPLAY THE MPM-1 SOFTWARE VERSION (Figure 13)

Example of Software version display:



- Make sure the MPM-1 is powered off.
- Press and hold the DOWN button.
- While keeping the DOWN button depressed, power on the MPM-1 by pressing the START/STOP button.

- Hold the DOWN button until the SOFTWARE VERSION appears on the screen.
- Wait approximately 5 seconds for the graph screen to appear.



TO CHANGE THE GRAPH MODE (Figure 14, 15)

This feature is available on software version 1.29 and later.

- The graph mode can be either LINE or FILL.
- The initial default graph mode is FILL. The graph mode is saved every time it is changed.

Directions:

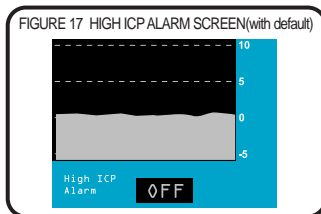
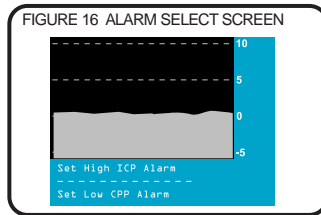
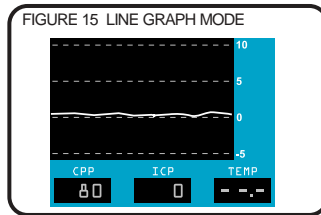
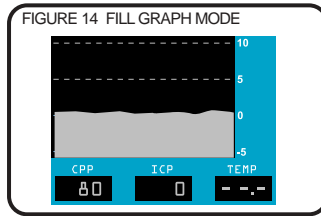
- Make sure the MPM-1 is powered off.
- Press and hold the SYS/DIAS button.
- While keeping the SYS/DIAS button depressed, power on the MPM-1 by pressing the START/STOP button.
- Hold the SYS/DIAS button until the graph screen appears.
- Repeat the above to revert to the FILL Graph Mode.

TO SET HIGH ICP ALARM (Figure 16, 17)

- The initial default ICP ALARM is set to OFF. After that, the level is saved every time it is set.
- Reminder: The alarm sounds and the ICP parameter blinks when ICP goes higher than the set point.

Directions:

- While the MPM-1 is on, press the UP or DOWN button, view the Alarm Select Screen.
- Press the UP button to select the High ICP ALARM.
- Press the UP or DOWN button to set the ICP ALARM to the desired level.
- Wait approximately 5 seconds for ICP ALARM to be set.
- Pressing the DOWN button until the word "OFF" appears disables this alarm.



TO SET LOW CPP ALARM (Figure 18, 19)

This feature is available on software version 1.31 and later.

- The initial default CPP ALARM level is OFF. After that, the CPP ALARM level is saved every time it is set.
- Reminder: The alarm sounds and the CPP parameter blinks when CPP goes lower than the set point.

Directions:

- While the MPM-1 is on, press the UP or DOWN button, view the Alarm Select Screen.
- Press the DOWN button to select the Low CPP ALARM.
- Press the UP or DOWN button to set the CPP ALARM to the desired level.
- Wait approximately 5 seconds for CPP ALARM to be set.
- Pressing the DOWN button until the word "OFF" appears disables this alarm.

TO SILENCE THE ALARM

- The initial default CPP ALARM and ICP ALARM levels are OFF. After that, the CPP ALARM and ICP ALARM levels are saved in memory every time they are set.

Directions

- Press the SILENCE ALARM button. The ALARM DISABLED INDICATOR will flash and whichever parameter, ICP or CPP, was in alarm mode will now be silenced for 3 minutes and that parameter will flash on the screen.

NOTE: The parameter that is in alarm mode will blink (even if it has been silenced). If both alarms were in alarm

mode when the SILENCE ALARM button was pressed, both alarms will be silenced. If one parameter (ICP or CPP) has been silenced and the other parameter goes into its alarm mode during the 3 minute silence period, the silence alarm mode is disabled (the alarm sounds).

BOTH ALARMS OFF

- As a warning, the ALARM DISABLED INDICATOR will be ON (and the alarms will be disabled) when both of the alarms have been set to OFF.

