



HEMEDEX

BOWMAN PERFUSION MONITOR[®]



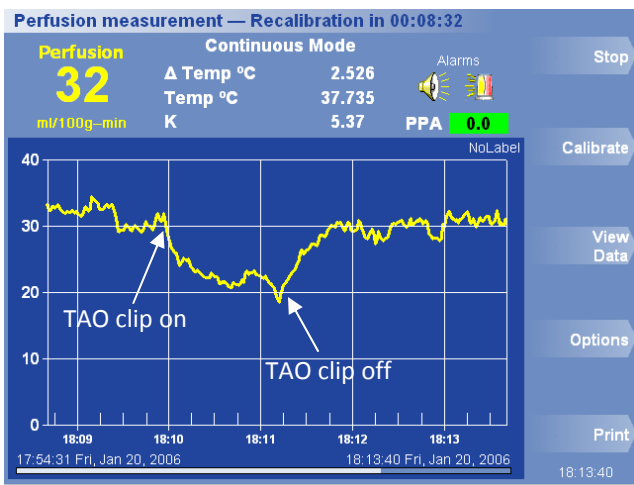
KNOW THE FLOW[™]

Continuous, real-time measurements of tissue perfusion in absolute units

Bedside monitoring of perfusion, temperature, and thermal conductivity

Minimally invasive, 19-gauge (O.D.), flexible, 10-day single-use probe

BOWMAN PERFUSION MONITOR®



The tissue blood flow is displayed graphically and as a numeric value on the monitor in physiologically relevant units (ml/100g-min of tissue).

BOWMAN PERFUSION MONITOR® CAPABILITIES:

- Detects changes in blood flow in real-time
- Offers valuable diagnostic and prognostic info
- Helps formulate and target therapy
- Detects vasospasm in comatose patients
- Detects cardiac induced brain vessel pulsatility
- Helps guide pharmacologic interventions
- Identifies patients at risk for impending ischemic events via absolute perfusion measurements
- Assists in detecting impaired autoregulation and changes in vascular resistance
- Increases understanding of pathophysiology
- Requires no user calibration
- Prints tabular data and waveforms
- Streams measurements via RS-232 that can be collected by multimodal monitoring data systems

ABSOLUTE CERTAINTY

While laser doppler measurements assess relative flow, the Bowman Perfusion Monitor quantifies tissue perfusion in absolute units. If there is no tissue blood flow, the Bowman Perfusion Monitor displays a perfusion value of 0.

ABSOLUTE SIMPLICITY

The Bowman Perfusion Monitor relies on a minimally invasive thermal diffusion probe that measures tissue blood flow in the spherical volume surrounding the distal tip. The 19-gauge diameter (~1 mm O.D.) flexible probe can be inserted into any soft tissue at the site where quantitative knowledge of perfusion is desired.

BOWMAN PERFUSION MONITOR® MODEL 500

USA (120 V) Cat. # H0000-0710
INTL (240 V) Cat. # H0001-0711

Includes : (1 each) Perfusion Monitor, power cord*, umbilical cord, printer paper, and instruction manual.

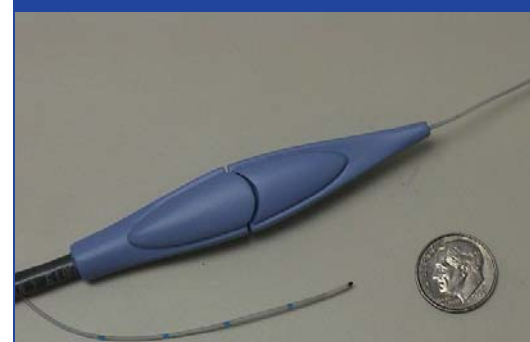
QFLOW 500® PERFUSION PROBE

USA/INTL Cat. # H0000-1600

ACCESSORIES

Fixation Disc Cat. # H0000-3600
Umbilical Cord Cat. # H0000-2612
Power Cord* Cat. # H0000-3620
Thermal Printer Paper Cat. # H1920-0011
BPM Manual/IFU Cat. # H3099-1001

*Please specify country of use when ordering monitor power cord(s).



QFLOW 500® PERFUSION PROBE

SPECIFICATIONS

Perfusion Measurement

Range: 0–200 ml/100g-min
Resolution: < 0.2 ml/100g-min
Accuracy: 10% of full scale (200ml/100g-min)
Volume of Measurement region: ≈ 0.3 ml

Temperature Measurement

Range: 25–46°C
Accuracy: ~ 0.3°C
Resolution: 0.005°C

Hardware Specifications

Power Requirements: US standard 100–120 VAC/60 Hz or 220–240 VAC/50 Hz

Analog Output

Voltage Output: 0 to 2 VDC
Output Scale: Fixed scale 100 ml/100g-min perfusion per volt (0 to 200 ml/100g-min)

Digital Output

Update Period: 1 second
Serial Port: supports data uploading and streaming via RS-232 communication

Electrical Safety

Breakdown Voltage: Medical Grade Isolation:
Dielectric strength tested to 4000 VAC
Leakage Current: < 10 µA—Meets IEC-60601 specifications for CF equipment

Physical Specifications

Dimensions: 10.5 L x 10 W x 16.5 H in, 26.67 L x 25.4 W x 41.91 H cm
Weight: 13 lbs (5.9 kg)
Shelf or pole mount



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