



**HEMEDEX**

## BOWMAN PERFUSION MONITOR®



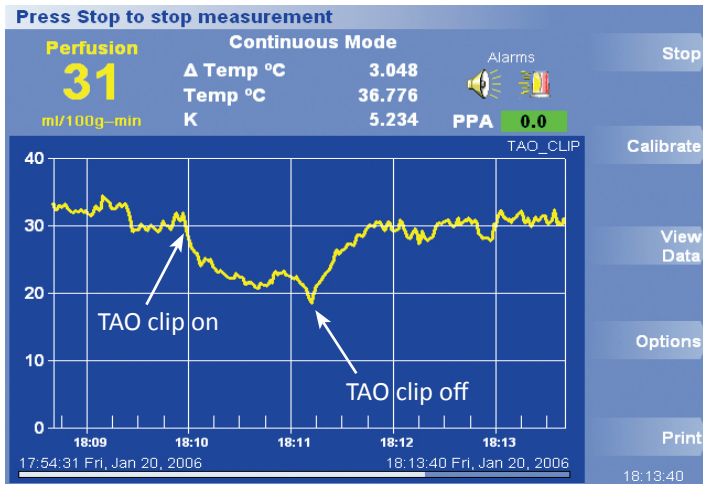
### KNOW THE FLOW™

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®

MODEL 500

USA (120V)

Cat. # H0000-0710

INTL (240V)

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

Probe Dura Piercer and

Introducer Kit USA/INTL

Cat. # H0000-3683

## QFLOW 500™ TITANIUM BOLT KITS

Single Lumen Bolt Kit

Cat. # H0000-3631

Dual Lumen Bolt Kit

w/Introducer

Cat. # H0000-3642

Quad Lumen Bolt Kit

Cat. # H0000-3644

## ACCESSORIES

Umbilical Cord

Cat. # H0000-2612

Power Cord\*

Cat. # H0000-3620

Thermal Printer Paper

Cat. # H1920-0011

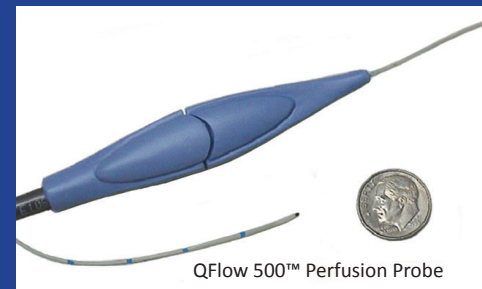
BPM Manual/IFU

Cat. # H3099-1004

Male Female Luer Coupler

Cat. # H0000-3685

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



## 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

### 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)

### 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.

### 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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