

Specifications
Environmental Performance

Operating Temperature	+15°C to +45°C (59°F to 104°F)
Operating Humidity	10% to 90% non-condensing
Operating Atmospheric Pressure	400 mmHg to 850mmHg

Mechanical Specifications

Pressure Range	- 30 to 300 mmHg
Overpressure Withstand	-400 mmHg to + 4000 mmHg
Mounting	Any axis

Safety Features

Risk Current	Less than 5mA
Defibrillation Withstand	5 cycles in 5 minutes @ 360J

Electrical Performance

Transducer Excitation Voltage	1 Vrms to 10 Vrms
Transducer Supply Frequency	DC to 5000 Hz
Phase Shift	<5°
Transducer Excitation Impedance	1200Ω to 2200Ω
Transducer Signal Impedance	285Ω to 375Ω
Transducer Symmetry	- 5% to + 5%
Accuracy	Meets AAMI / ANSI BP22 (1994) Standard
Sensitivity	4.95 μ V/V/mmHg to + 5.05 μ V/V/mmHg
Zero Drift After 5 min Warm-up	<1mmHg in 4 hrs
Temperature Sensitivity Coefficient	<0.1%/C
Zero Offset	-20 mmHg to + 20 mmHg
Light Sensitivity	<1 mmHg
Mechanical Shock (2ms sine, 3 axis)	500g
Vibration (20Hz to 2kHz, 1 octave/min, 3 axis)	20g

Contents

All kits include sterile ACCUTRANS disposable pressure transducer with integral 3- or 30cc/hr flush device with Fast Flush and pressure relief functions. The table below identifies additional components included in sterile, packaged single-use Pressure Monitoring Kits by catalog number. All Luers are supplied protected with vented caps. All required non-vented caps are supplied in a separate pouch within each kit package.

Product Code	Description	Integral Flush Device*	Extension Tubing	Stopcock	Distal Tubing
AT	Standalone DPT Without Flush Device	None	None	None	None
AT-30**	Standalone DPT With Flush Device (Infant/Neonatal)	30 cc/hr	None	None	None
AT-3	Standalone DPT With Flush Device (Adult)	3 cc/hr	None	None	None
AT 4812-3	Single DPT System (Adult)	3 cc/hr	48" (122cm)	3-way	12" (30cm)
AT2 4812-3	Bifurcated DPT System (Adult)	3 cc/hr	48" (122cm)	3-way	12" (30cm)
AT3 4812-3	Trifurcated DPT System (Adult)	3 cc/hr	48" (122cm)	3-way	12" (30cm)
AT 6012-3	Single DPT System with 60" extension tubing (Adult)	3 cc/hr	60" (152cm)	3-way	12" (30cm)

*Flush rates indicated are nominal and were obtained with 300mmHg pressure.
Fast Flush rates vary with the type of administration set and length and lumen diameter of the monitoring tubing catheter.
**Kits supplied with 30cc/hr (yellow banded) flush devices are intended for infant and neonatal applications.
Note: Please contact our Bioptimal Sales Representative for custom kits to meet your special requirements.

Reusable ACCUTRANS Accessories

Product Code	Description
HM650-150	Vertical Mounting Clamp for IV Poles up to 4cm diameter
HM650-150-H	Horizontal Mounting Clamp for IV Poles up to 4cm diameter
HM650-150-R	Rotatable Mounting Clamp for IV Poles up to 4cm diameter in both vertical and horizontal application
PMA-1	Transducer Holder that holds 1 transducer at one time
3-in-1 Backplate	Transducer Holder that holds up to 3 transducers at one time
MAC-XX***	3.05m (10Ft) Monitor Adapter Interface Cables for specific brands of monitors

***Please contact your Bioptimal representative for assistance.

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Innovative ease-of-use in the critical care arena.

ACCUTRANS

Disposable Blood Pressure Transducer



Bioptimal™

ACCUTRANS

Disposable Blood Pressure Transducer

Innovative ease-of-use
in the critical care arena.



Features

Tubing and lines

Optional color-coded
for easy identification

Small and Lightweight

Ideal for both pole mount
and patient mount applications

Transparent Body

Clear Fluid path visibility
for debubbling

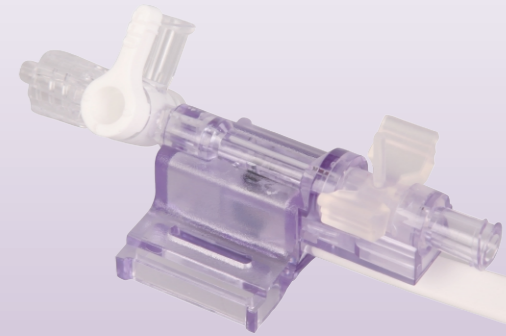
Two Types of Flush

Controlled squeeze or pull-tab
snap (*dynamic waveform test*)

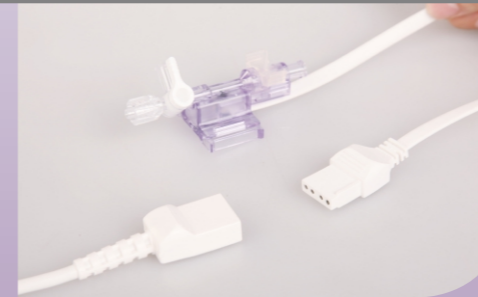


Benefits

- Completely compatible with current Biotrans II accessories.
- Available in standard or custom kit configurations.
- Infant & Neonatal customized kits configurations are available.
- Convenient, easy to set-up and use.



ACCUTRANS Accessories



Fully compatible with accessories from
the existing Biotrans II Transducer System.

ACCUTRANS Transducer Interface Cable



Bioptimal has the full range of transducer interface cables
that is compatible to all commonly-used patient monitors in
the market.

Bioptimal makes ordering and stocking your monitoring
components easy. Whether you require a standard kit, or
prefer a customized version, we are prepared to respond
to your critical care monitoring needs.

Bioptimal International

Since 1990, Bioptimal International has been a leader in the design, research, development and distribution of innovative medical devices including blood pressure monitoring system and therapeutic cardiovascular catheters.

The launch of ACCUTRANS reassures our customers that we are still anticipating to your increasing needs for innovative and ease-of-use Disposable Pressure Transducer.

By introducing ACCUTRANS to our existing products, we are offering one of the most comprehensive product ranges in the critical care arena.

