DISPOSABLE PRESSURE TRANSDUCER

HISERN

ISO
9001:2015 / 13485:2016

CE 0123

Disposable Pressure Transducer

Why invasive blood pressure monitoring is needed?

Arterial blood pressure is most accurately measured invasively through an arterial line. Invasive arterial pressure measurement with intravascular cannula involves direct measurement of arterial pressure by placing a cannula needle in an artery (usually radial, femoral, dorsalis pedis or brachial).

The cannula must be connected to a sterile, fluid-filled system, which is connected to an electronic pressure transducer. This invasive technique is regularly employed in human and veterinary intensive care medicine, anesthesiology and for research purposes.

IBP (Invasive Blood Pressure)provides various clinical values. In surgical applications, the blood pressure is continuously and accurately measured, allowing medical staff to react to changes faster. For example, if anesthesia is given to the patient, the continuous monitoring can confirm it has not caused an adverse effect to the blood pressure. During certain operations, maintaining blood pressure in a very narrow range is critical; IBP creates the capability to monitor and maintain pressures. IBP also plays a critical role in situations where blood pressure is expected to fluctuate rapidly. By continuously monitoring the pressure, medical staff can be more timely and accurate in their reactions.

When to use:

- NIBP(Non-Invasive Blood Pressure) is not possible to use or when greater accuracy is required.
- Blood pressure must be maintained in very narrow range for a period of time.
- Blood pressure is expected to fluctuate significantly.
- Continuous blood analysis is required.

Method Comparison

ITEM	NIBP(Non Invasive Blood Pressure)	IBP(Invasive Blood Pressure)
Advantage	No wound	Continuous, accurate and reliable blood pressure monitor
Application	Out-patient, tentative diagnosis	Intensive Care Unit (ICU), Operating room, especially interventional operations
Disadvantage	Accuracy depends on human operating Factors	Penetration of blood vessel

Disposable Pressure Transducer

Features:

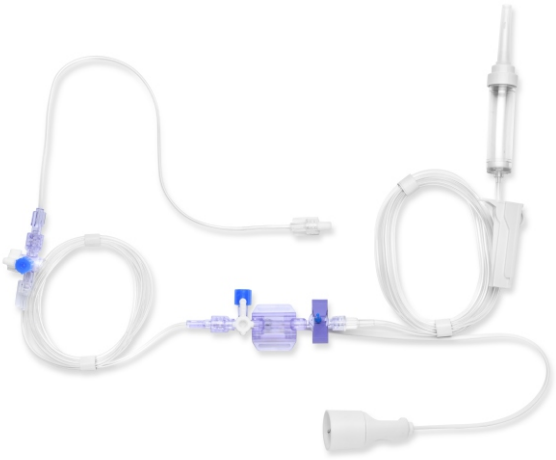
- Consistent and accurate readings during blood pressure monitoring.
- High durometer pressure tubing ensures optimal dynamic response.
- The convenient snap-tap flush device designed for easy priming and square-wave testing.
- Multiple standard configuration, adult and neonatal/pediatric.
- Versatile, dual function snap tab allows dynamic response testing.
- 3cc or 30cc per hour flow rates with dual function flush device.
- 6 connectors match most monitors and single, double, triple lumens are options.
- Administration sets pre-connected to the IBP Transducer sets
- Sterile and individually packaged.
- ISO, CE & FDA 510K.

PERFORMANCE SPECIFICATIONS

Supply Voltage:6.0Vdc
Ambient Temperature:23℃(unless otherwise specified)

	PARAMETERS	MIN	TYP	MAX	UNITS	NOTES
Electrical	Operating Pressure Range	-50		300	mmHg	
	Over Pressure	125			psi	
	Zero Pressure Offset	-20		20	mmHg	
	Input Impedance	1200		3200	Ω	
	Output Impedance	285		315	Ω	
	Output Symmetry	0.95		1.05	Ratio	3
	Supply Voltage	2	6	10	Vdc or Vac rms	
	Risk Current (@ 120 Vac rms, 60Hz)			2	uA	
	Sensitivity	4.95	5.00	5.05	uU/V/mmHg	
Performance	Calibration	97.5	100	102.5	mmHg	1
	Linearity and Hysteresis (-30 to 100 mmHg)	-1		1	mmHg	2
	Linearity and Hysteresis (100 to 200 mmHg)	-1		1	% Output	2
	Linearity and Hysteresis (200 to 300 mmHg)	-1.5		1.5	% Output	2
	Frequency Response		1200		Hz	
	Offset Drift			2	mmHg	4
	Thermal Span Shift	-0.1		0.1	%/℃	5
	Thermal Offset Shift	-0.3		0.3	mmHg/℃	5
	Phase Shift (@ 5KHz)			5	Degrees	
	Defibrillator withstand (400 joules)	5			Discharges	6
	Light Sensitivity (3000 Foot Candle)		1		mmHg	
Enviromental	Sterilization (ETO)	3			Cycles	7
	Operating Temperature	10		40	℃	
	Storage Temperature	-25		+70	℃	
	Operating Product Life			168	Hours	
	Shelf Life	5			Years	
	Dielectric Breakdown		10,000		Vdc	
	Humidity (External)	10-90% (non-condensing)				
	Media Interface	Dielectric Gel				
	Warm-Up Time		5		Seconds	

Disposable Pressure Transducer



DBPT-0103 IBP Transducer

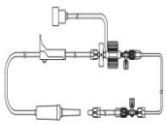
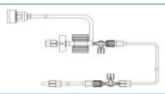
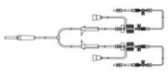
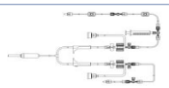
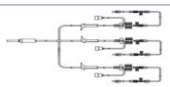
Introduction

Provide consistent and accurate readings of arterial and venous blood pressure measurements.

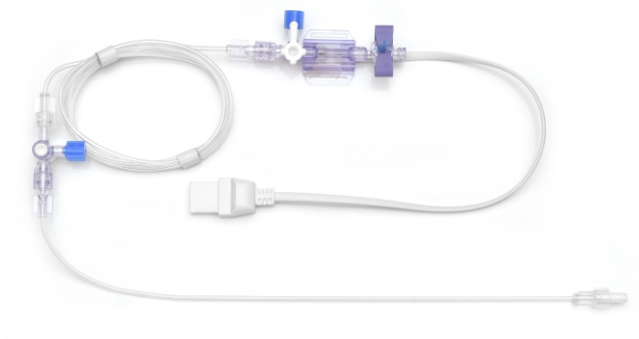
Features:

- Kit options (3cc or 30cc) for both adult/pediatric patients.
- With single, double and triple lumen.
- Available with closed blood sampling system.
- 6 connectors and various cables match most monitors in the world.
- ISO, CE & FDA 510K.

Disposable Pressure Transducer

TYPE	Specification	Description	Package	Carton size
DBPT-0103		Adult	40pcs /carton	41.5×29×44.5cm
DBPT-0130		Pediatric	40pcs /carton	41.5×29×44.5cm
DBPT-0203		Intervention Use	40pcs /carton	41.5×29×44.5cm
DBPT-0303		Assembled Core Part	40pcs /carton	41.5×29×44.5cm
DBPT-0403		Double Lumen	20pcs /carton	41.5×29×44.5cm
DBPT-0503		Closed blood sampling system	20pcs /carton	41.5×29×44.5cm
DBPT-1003		Triple Lumen	20pcs /carton	41.5×29×44.5cm

Disposable Pressure Transducer



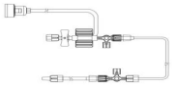
DBPT-0203 IBP Transducer

Introduction

Provide consistent and accurate readings of arterial and venous blood pressure measurements during cardiac intervention operations.

Features:

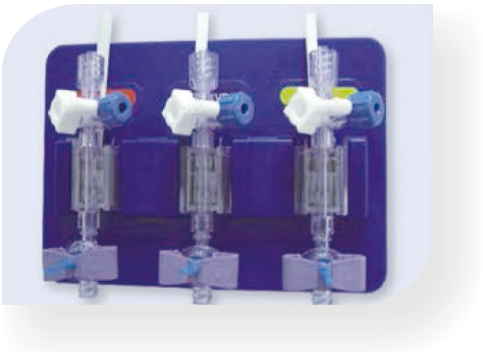
- Kit options (3cc or 30cc) for both adult/pediatric patients.
- 6 connectors and various cables match most monitors in the world.
- **Widely used for interventional operations.**

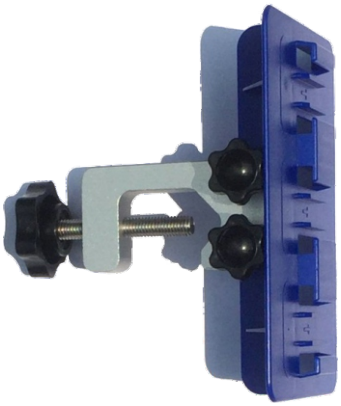
Disposable Pressure Transducer				
REF	**Specification**	**Package**	**Carton size**	**Shelf Life**
DBPT-0203		40pcs /carton	41.5×29×44.5cm	5 Years

Disposable Pressure Transducer

Fixation Plate for Disposable Pressure Transducer

With color coded labels provides easy identification of various components and be easily adapted to mount to the bedside or an IV pole. Reusable.





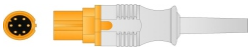
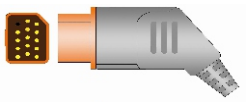
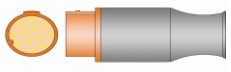
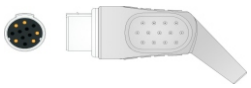
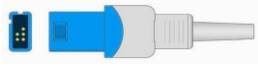
Transducer Fixation Plate Holder

Uses thumb screws to secure Transducer Fixation Plate. Reusable.

IBP Interface Cables

Interface Cables are for connection between disposable or reusable transducers and the specified monitoring system. All cables are 3m in length and packaged individually. Cables are reusable, non-sterile.

Disposable Pressure Transducer

Cable No.	Connector of Machine	Monitor Type
012		**GE-Datex** Airshield,Burdick,Kone
062		**GE-Marquette** Eagke/dash1000,2000,3000,3100,4000;Solar7000,8000,9000; Tram Module 100-600, Cath-Lab, MAC-Lab
026		**Philips/HP** 78352A, M1165A, MerlinViridia 24, CMS 24 M3/M4,M1175A, M1350B,M1205A, M1350A,M1353A,8030A,8040A
002		**Spacelabs & General** BCI, IVY, Ctitikon, Invivo, Mennen, NDE,PB, Nellcor, Tektronix, Viatek
032		**Siemens** Sirecust 400-1281,SC8000
003		**Siemens** SC 6000,7000,9000
096		**Drager** Cato, Cicero EM,Vitara Parameterbox PB 8800; PM8010; PM8014 PM 8040; PM 8060, Sulla, UM3, UM3.1
086		**Datascope** System 80,82,83,84,90,90T,95,98,97 IABP,850,870,P2,P3,2000, 2000A.,2001,2001A,2002,2002A,2200I,3000, Passport
091		**Nihon Kohden** Lifescope 6,9,12,14; AP-311P -800PA BMS 2100-8500A OEC 3200-8120A, OMP-3221E –n7203, Mercury 9510K
093		**Nihon Kohden**
014		**Kontron** Minimon 7131-7136, Fetalmon 2A,2B Fetalogic 4000, Fetasonde 5,5A,5B K2000 Ballon Pump; KAAT II Module 10-7286, Supermon
075		**Spacelabs** Ultraview
019		**GE Corometrics**
068		**GE Hellige**
113		**Lohmeier**

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