



DELTRAN[®]

Technology for Critical Care

UTAH MEDICAL
PRODUCTS INC.



DELTRAN® PLUS

Closed Needleless Arterial Blood Collection System

THE PROBLEMS

Nosocomial Infections/Vascular Line Sepsis

Stopcocks (used for injection of medications, administration of IV infusions, and collection of blood samples) represent a potential portal of entry for microorganisms into vascular access catheters and IV fluids.

Needlesticks and Exposure

OSHA estimates that 5.6 million workers in the health care industry and related occupations are at risk of exposure to blood-borne pathogens, including HIV, Hepatitis B, and Hepatitis C.

OSHA's Compliance Directive¹ states that:

"All procedures involving blood or other potentially infectious materials shall be performed in such a manner as to minimize the splashing, spraying, spattering, and generation of droplets of these substances."

The Directive further states:

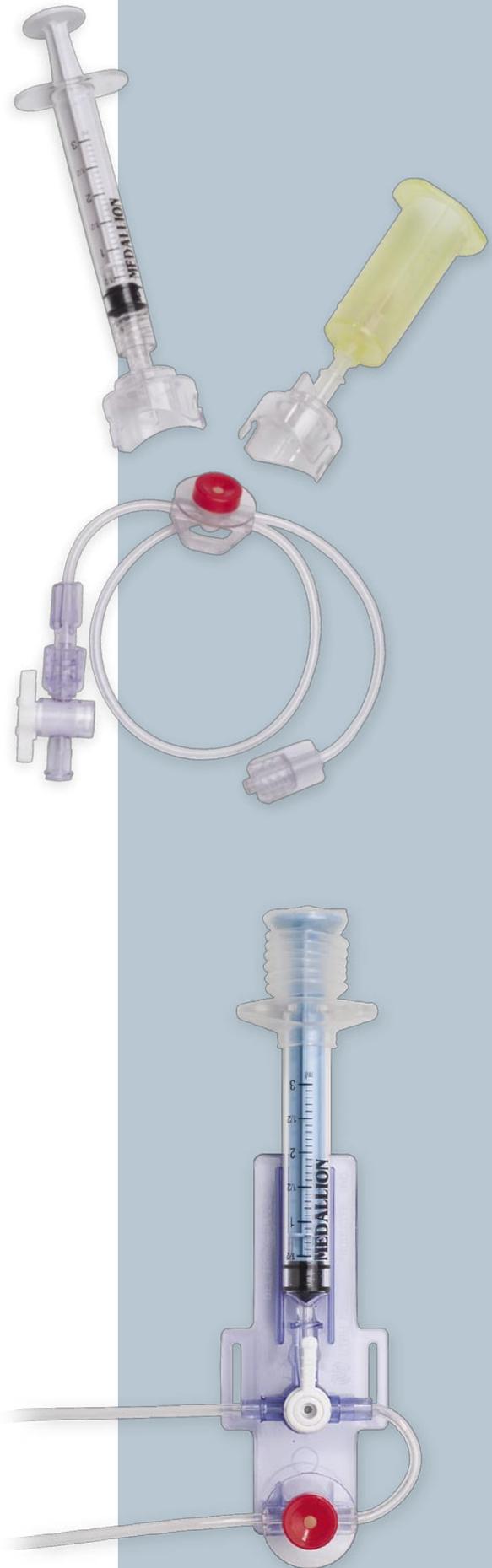
"Employers who have employees with occupational exposure to blood-borne pathogens must consider and, where appropriate, use effective engineering controls, including safer medical devices, in order to reduce the risk of injury from needlesticks and from other sharp medical instruments."

THE SOLUTION

DELTRAN PLUS, Utah Medical Products, Inc.'s (UTMD's) closed needleless arterial blood collection system, was designed to offer increased protection to patients and healthcare workers. The integrated reservoir syringe and needleless sampling port provide significant benefits:

- Closed sampling system reduces the risk of nosocomial infection or line sepsis.
- Closed sampling system reduces the splashing and spraying of blood during sampling.
- Integrated reservoir syringe conserves precious blood volume of the patient (small volume blood loss can be critical for neonatal patients).
- Needleless sampling system reduces potential exposure from needlesticks.
- A clear, saline-free blood sample can be easily drawn for accurate lab analysis.
- Accurate blood pressure measurements with components that simplify set-up.
- One-handed operation of reservoir syringe makes the system easy to use.

¹OSHA 1910-1030

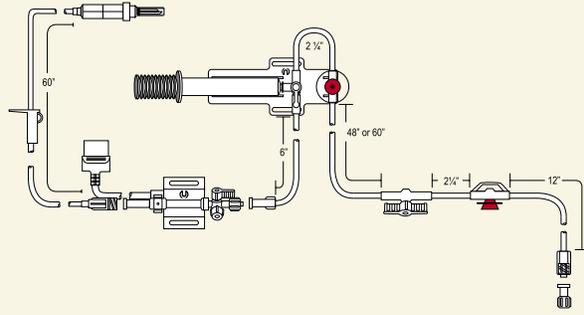


DELTRAN® PLUS KITS

Closed Needleless Arterial Blood Collection System

Single-Line Pole Mount Set

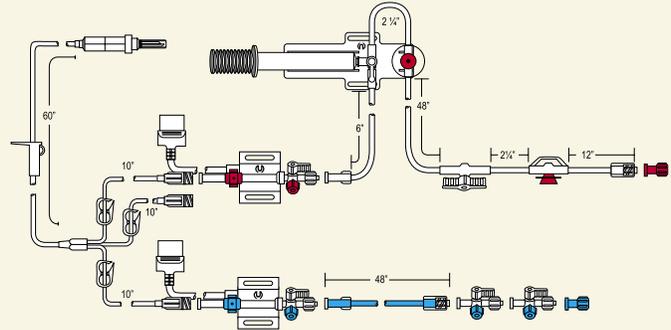
- ABC-448 48" Line with Micro Drip Chamber, 3cc Reservoir
- ABC-460 60" Line with Micro Drip Chamber, 3cc Reservoir
- ABC-448-6 48" Line with Micro Drip Chamber, 6cc Reservoir
- ABC-460-6 60" Line with Micro Drip Chamber, 6cc Reservoir



Dual-Line Pole Mount Set

Color coded lines for accurate identification
Scalable – easily add a third line

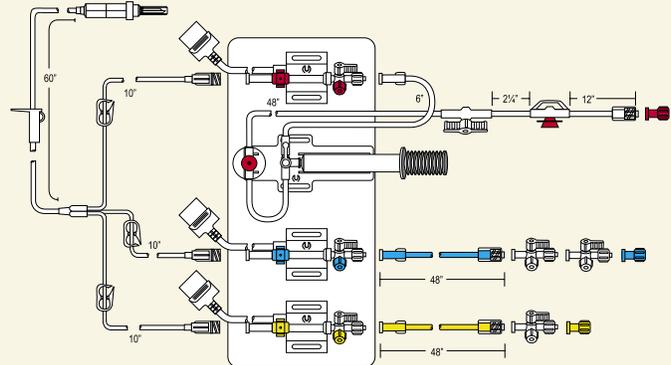
- AB2-448 48" Lines with Micro Drip Chamber, 3cc Reservoir
- AB2-448-6 48" Lines with Micro Drip Chamber, 6cc Reservoir



Triple-Line Pole Mount Set

Color coded lines for accurate identification
Preassembled triple line set
Includes organizer

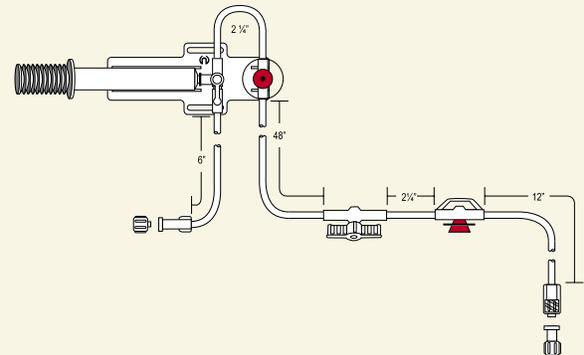
- AB3-448-6 48" Lines with Micro Drip Chamber, 6cc Reservoir



Single-Line ABC Sampling Set

Single ABC line without transducer
Add closed-system sampling to any transducer

- ABC-048 48" ABC Line, 3cc Reservoir

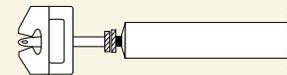


ABC Needleless Sampling Cannula

- ABC-100 Protective Safety Cannula
- ABC-105 Protective Safety Cannula for Vacuum Collection



ABC-100



ABC-105

NEONATAL/PEDIATRIC KITS

Designed Specially for the Small Patient

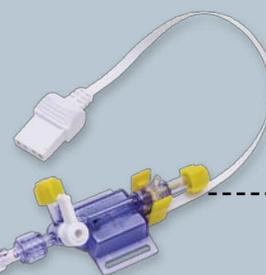
UTMD applied its industry-accepted disposable blood pressure monitoring technology to the special needs of the NICU. UTMD's Deltran® disposable pressure transducer expertise is integrated into a closed blood collection system¹ that is designed specifically to conserve blood and protect the neonatal patient from infection.

- Closed sampling system reduces risk of sepsis.
- Conserves precious blood volume of the neonatal patient.
- Needleless sampling system to avoid potential exposure and cross-contamination.
- Clear, saline-free blood sample for accurate lab analysis.
- Accurate blood pressure measurements with components that simplify setup.

Protective Latex-Free Plunger Protection Sheath



Reservoir Syringe Stopcock



Deltran IV Integrated Transducer, Flush Device, Venting Stopcock

Needleless Access Port



Anti-Backflow Stopcock

Deltran Plus Neonatal Transducer

Yellow markings identify

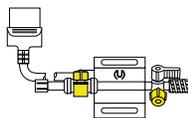
neonatal/pediatric application

Deltran Plus accuracy and reliability

Up to 30cc/hr flow rate

DPT-500

Deltran Plus Neonatal Transducer



Single-Line Neonatal/Pediatric Set

Yellow markings identify

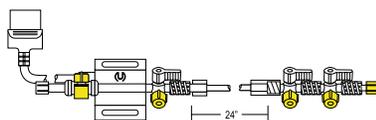
neonatal/pediatric application

Facilitates blood sampling

Up to 30cc/hr flow rate

DPT-524

24" Line



Single-Line Closed Sampling Set

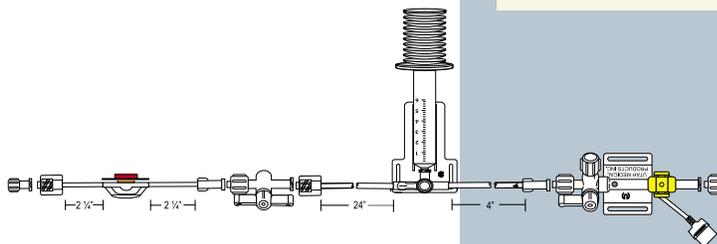
Designed specifically for neonatal application

Preserves precious neonatal blood volume

Up to 30cc/hr flow rate

ABC-528NP

Neonatal ABC Kit,
6cc reservoir



Deltran® Plus Closed Sampling Procedure:

1. Open reservoir syringe stopcock ('off' to transducer).
2. Draw fluid from catheter-tubing system into reservoir syringe (pulls pure blood into access port).
3. Close one-way anti-backflow stopcock.
4. Insert blunt cannula into access port to draw blood into sampling syringe.

Now reverse steps 1 through 3:

- Open one-way anti-backflow stopcock.
- Re-infuse fluid from reservoir syringe to the patient.
- Close reservoir syringe stopcock to resume blood pressure monitoring ('off' to reservoir).

¹U.S. Patent 5,759,160

ACCESSORIES AND KITS

Answering Critical Care Needs

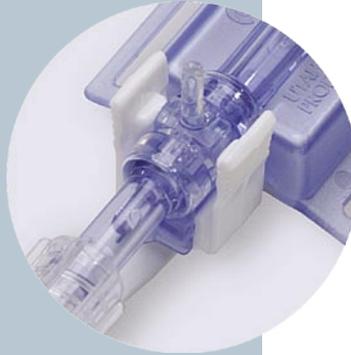
Custom Monitoring Kits

Every clinical requirement – for any situation – can be designed into a single system. Simply call a UTMD Customer Support Representative or Technical Support Specialist for a custom kit prototype. Minimum quantity required.



Monitor Cables

UTMD cables provide the interface between Deltran transducers and virtually all monitor models, ensuring that Deltran accurately monitors patient vitals. Contact UTMD with your monitor model for product information.

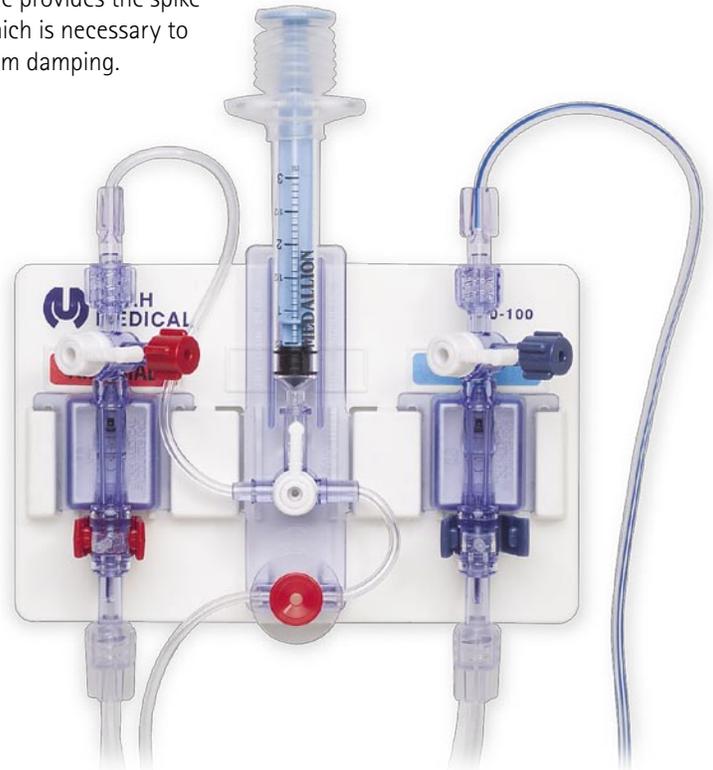


Delta-Flow™

Clinical dynamic response assessment by square wave testing may be performed quickly and accurately at the bedside with the Snap-Tab™ flush device. This device provides the spike to the system which is necessary to evaluate waveform damping.

Organizers

Three and four place Organizers with color coded labels provide easy identification of various components and can be easily adapted to mount to the bedside or an IV pole.



Delta-Cal™

A unique, hand-held transducer tester, DELTA-CAL provides a known pressure value to eliminate use of mercury manometers and allows verification of proper function and accuracy of the DELTRAN pressure transducer system. A pneumatic port and monitor connector port provide methods for determining the source of a problem, whether it be in the monitor, cable, or transducer. The device may also be used with most other blood pressure transducer systems.



Technology for Critical Care

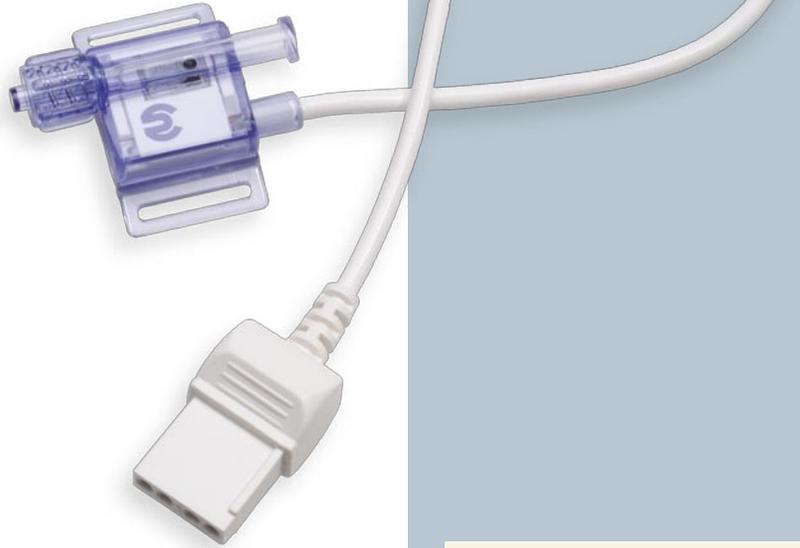
Since 1978, UTMD has been a leader in disposables for blood pressure monitoring. By continually striving to anticipate the critical needs of clinicians, UTMD is constantly refining technology to develop transducer products of the highest value to clinicians and patients.

DELTRAN pressure transducers reflect 20 years of experience in critical care monitoring. During that time the DELTRAN transducer has been established as the standard for safety and accuracy.

In addition, UTMD's DELTRAN PLUS needless arterial blood collection system extends the DELTRAN family of products to include protection from exposure to blood-borne pathogens.

UTMD's goal is to continually seek ways to improve accuracy and safety.

DELTRAN I
Stand Alone Disposable
Pressure Transducer



DELTRAN IV
Pressure Transducer With Integral
Stopcock and Flush Device



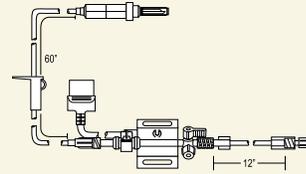
Deltran Provides:

- Consistent and accurate readings during monitoring.
- Components that simplify set-up.
- A closed sampling system which reduces risk of sepsis.
- Conservation of precious blood volume which can be critical in small patients.
- A needless sampling system to avoid potential exposure and cross-contamination.
- A fully integrated flow-thru component design that simplifies priming and de-bubbling.
- The versatile, dual function Snap-Tab which allows for dynamic response testing.
- 3cc or 30cc per hour flow rates.
- Compatibility with most types of monitors.

DELTRAN KITS

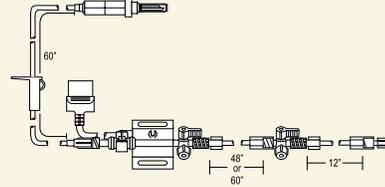
Single-Line Arm Mount Set

- DPT-412 Micro Drip Chamber
- DPT-412A Macro Drip Chamber



Single-Line Pole Mount Set

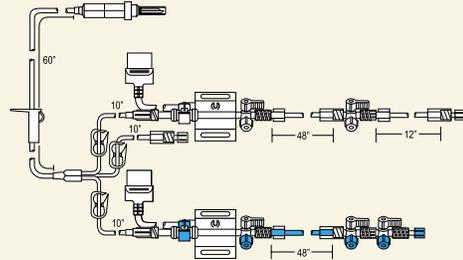
- DPT-448 48" Line with Micro Drip Chamber
- DPT-448A 48" Line with Macro Drip Chamber
- DPT-460 60" Line with Micro Drip Chamber
- DPT-460A 60" Line with Macro Drip Chamber



Dual-Line Pole Mount Set

Color coded lines for accurate identification
 Scalable – easily add a third line

- DP2-448 48" Lines with Micro Drip Chamber
- DP2-448A 48" Lines with Macro Drip Chamber

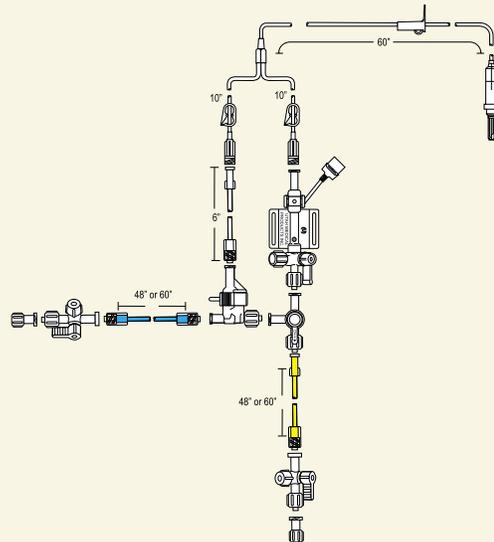


Bifurcated Single Transducer Pole Mount Set

Enables monitoring of either of two lines with a single transducer

Color coded lines for accurate identification

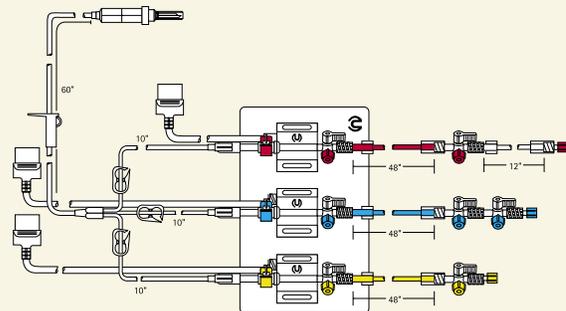
- DPT-448DL 48" Lines with Micro Drip Chamber
- DPT-460DL 60" Lines with Micro Drip Chamber



Triple-Line Pole Mount Set

Color coded lines for accurate identification
 Preassembled triple line set

- DP3-448 48" Lines with Micro Drip Chamber
- DP3-448A 48" Lines with Macro Drip Chamber



ORDERING INFORMATION

Deltran® Transducers and Kits

Transducers

DPT-100	Deltran Disposable Pressure Transducer	25/bx
DPT-400	Deltran IV Disposable Pressure Transducer, 3cc/hr flow	25/bx
DPT-500	Deltran IV Disposable Pressure Transducer, 30cc/hr flow for Neonatal Use	25/bx

Assembled Transducer Kits	Transducers	Line Length	Package	Micro Drip	Macro Drip
Deltran IV Arm Mount Kit	1	12"	25/bx	DPT-412	DPT-412A
Deltran IV Pole Mount Kit	1	48"	25/bx	DPT-448	DPT-448A
Deltran IV Pole Mount Kit	1	60"	25/bx	DPT-460	DPT-460A
Deltran IV '2x1' Pole Mount System	1	2 x 48"	10/bx	DPT-448DL	--
Deltran IV '2x1' Pole Mount System	1	2 x 60"	10/bx	DPT-460DL	--
Deltran IV Pole Mount Kit	2	2 x 48"	10/bx	DP2-448	DP2-448A
Deltran IV Pole Mount Kit	3	3 x 48"	10/bx	DP3-448	DP3-448A

Deltran Plus Transducers and Closed, Needleless Arterial Blood Collection (ABC) Kits

Available only with Micro Drip administration sets.

Assembled Transducer Kits	Transducers	Reservoir	Package	48" Line	60" Line
ABC System Only	0	3cc	25/bx	ABC-048	--
Deltran Plus/ABC Pole Mount Kit	1	3cc	25/bx	ABC-448	ABC-460
Deltran Plus/ABC Pole Mount Kit	1	6cc	25/bx	ABC-448-6	ABC-460-6
Deltran Plus/ABC Pole Mount Kit	2	3cc	10/bx	AB2-448	--
Deltran Plus/ABC Pole Mount Kit	2	6cc	10/bx	AB2-448-6	--
Deltran Plus/ABC Pole Mount Kit	3	6cc	10/bx	AB3-448-6	--

Neonatal Systems and Kits

For use with syringe pumps. Allows for up to 30cc/hr flow rates.

Assembled Transducer Kits	Transducers	Reservoir	Package	24" Line
Deltran IV Standard Kit	1	--	25/bx	DPT-524
Deltran Plus Closed, Needleless ABC Kit	1	6cc	25/bx	ABC-528NP

Accessories: Organizers, Pole Mounts & Monitor Cables

ABC-100	Protective Safety Cannula for ABC Systems	100/bx
ABC-105	Protective Safety Cannula with Vacuum Collection Assembly for ABC Systems	50/bx
650-100	Deltran Three Position Organizer	5/bx
650-105	Deltran Four Position Organizer	5/bx
650-125	Velcro Strap and Adhesive Pad for Patient Mount	25/bx
650-150	Pole Mount Unit for Organizers	1 ea
650-XXX	Reusable Monitor Interface Cables	1 ea

Contact UTMD for cable information for your specific monitor

Transducer Calibration Systems

650-950	Delta-Cal™ Transducer Simulator/Tester	1 ea
650-900	Veri-Cal™ Transducer Tester	1 ea
650-905	48" Connecting Tube and Four-Way Stopcock (non-sterile)	1 ea

Delta-Flow™ Flush Devices with Snap-Tab™

100-202	Delta-Flow™ II 3cc/hr, 'T' Configuration	50/bx
100-204	Delta-Flow II 3cc/hr, Flow-Through Configuration	50/bx
100-205	Delta Flow II 3cc/hr, 'Y' Configuration	50/bx

Fluid Administration Sets, Caps, and Stopcocks

600-122	Fluid Administration Set, 60", Macro Drip Trifurcated	25/bx
600-400	Universal Caps (package of two)	50/bx
400-351	3-Way Luer Lock Stopcock	50/bx

Luer-Lock Pressure Tubing Packaged 50/box.

Length	Male-Female	Male-Male
6"	300-006	310-006
12"	300-012	310-012
18"	300-018	310-018
24"	300-024	310-024
36"	300-036	310-036
48"	300-048	310-048
60"	300-060	310-060
72"	300-072	310-072
84"	300-084	310-084

Deltran® is a registered trademark of and Delta-Cal™, Delta-Flow™, Snap-Tab™ and Veri-Cal™ are trademarks of Utah Medical Products, Inc.

UTAH MEDICAL
PRODUCTS, INC.



United States

Utah Medical Products, Inc.
7043 South 300 West
Midvale, Utah, 84047
Toll-free 800 533-4984
Tel 801 566-1200
Fax 801 566-2062
www.utahmed.com

Europe

Utah Medical Products Ltd.
Athlone Business & Technology Park
Dublin Road
Athlone, County Westmeath, Ireland
+353-90-647-3932