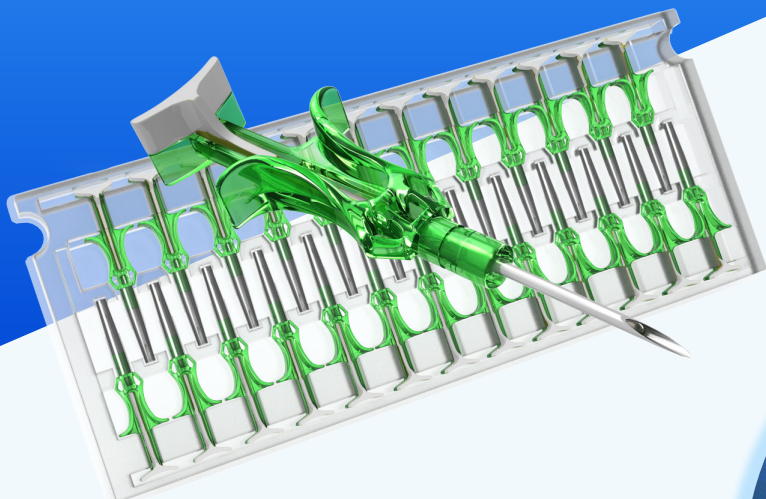


BMDS XPT-100

X-Tra Small Programmable Transponder



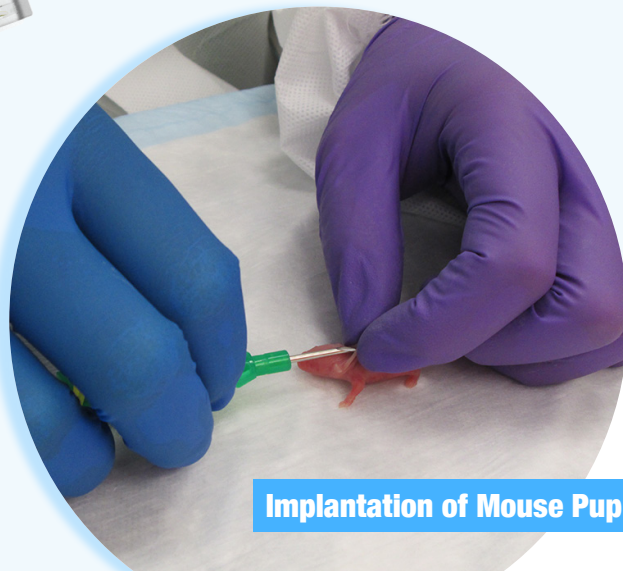
BMDS
part of **AVIDITY** Science



The Features of XPT-100

The XPT-100 is a miniature glass-encapsulated multi-functional programmable transponder. This remarkable new transponder is 8 millimeters in length by 1.4 millimeters in diameter. By contrast, the IPT-300 is 14 millimeters in length by 2 millimeters in diameter. As a fully programmable device, the user can program directly into this transponder, a thirty-two character user code, made up of letters, numbers, or special characters. This user code can be added to or locked. Moreover, there is available, an additional ten-digit factory code. This fixed code cannot be changed and is unique to each transponder. This supplemental code can be used as a supplementary or back up ID.

The XPT-100 can be scanned, read, or programmed by an appropriate BMDS reader or probe, without the need for dedicated programming station. Meaningful ID makes animal identification quick, seamless, and fail-safe. Also, you can create a map file that loaded to the reader that allows the user ID cross-referenced to additional data.



Implantation of Mouse Pup

BMDS Reader Compatibility

DAS-8001 with RSP-8025

DAS-8002 Programming Station

DAS-8010 with RSP-8025

DAS-8020 with RSP-8025

DAS-8027 IUS

DAS-8029 BSC

DAS-8017

KP-8019

*Designed for harmless implantation, **BMDS** transponders are the most convenient, humane, reliable, and cost-effective method for automated animal identification. You can even retrieve data decades after a study ends if you remove the transponder with a tissue sample and place it into long-term storage, in cold or liquid preservative.*

TECHNICAL INFORMATION



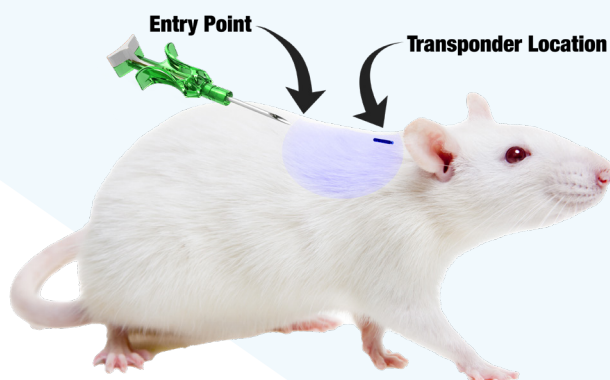
XPT-100



IPT-300



IPTT-300



Technical Characteristics

Read Distance: 3 inches (76.2 millimeters)

Size: 1.4 millimeters in diameter & 6 millimeters long

Biocompatibility: The XPT-100 transponder is encased in glass suitable for all laboratory species. SCHOTT-Glass number 8625, soda lime-silicate glass for encapsulation, excellent tissue compatibility.

Needle: 15 gauge stainless steel, OD 0.071 inches (1.8 millimeters)

Memory: 32 characters programmable with letters, numbers, or special symbols. Programmed ID can be fully or partially locked by the user from accidental over-write. Additionally, there is a non-volatile 10 hex digit unique factory code that is fixed.

Anti-Migration: The XPT-100 is coated with a micro-thin coating of Parylene C.

Parylene coating will encourage tissue encapsulation to prevent transponder migration. The coating forms a surface that allows for tissue fiber adhesion within the animal subcutaneous layer thereby bonding around the XPT-100 transponder holding it in place. Parylene coatings are used in many animal applications as well as for human medical use. Examples are pacemakers, forceps, catheters, stents, needles, implantable devices, and many more have a parylene coating. The coatings have been proven to prevent rejection of the item and speed up the bonding process with the tissues. Parylene is fully bio-compatible. Parylene has been FDA-approved (with USP XXII Class VI biocompatibility rating) and is safe for use within the human body. Parylene has also passed the ISO10993-1/FDA biocompatibility evaluation tests for cytotoxicity, system toxicity, hemocompatibility, sensitization, and intracutaneous reactivity.