

GPT12™

FDX-B HIGH-PERFORMANCE PIT TAG



Biomark



The Biomark **GPT12** FDX-B Passive Integrated Transponder (PIT) Tag is a radio frequency identification (RFID) device that complies with the specifications of ISO Standards 11784 and 11785, and is compatible with reading systems designed in compliance with these standards. This PIT Tag is packaged in a laser-annealed glass ampoule that measures 12.5 mm in length and 2.12 mm in diameter. The Biomark GPT12 PIT Tag is designed specifically for subcutaneous or intramuscular implantation in animals and is ideal for markrecapture and genetics work. GPT12 available in bulk and preload tray of 100.

GPT12 COMPATIBLE IMPLANTERS

- MK10 syringe style implanter + N125 needle
- MK7 syringe style implanter with needle
- The GPT12 is also available in the Biomark Pre-load systems, for use with the MK25

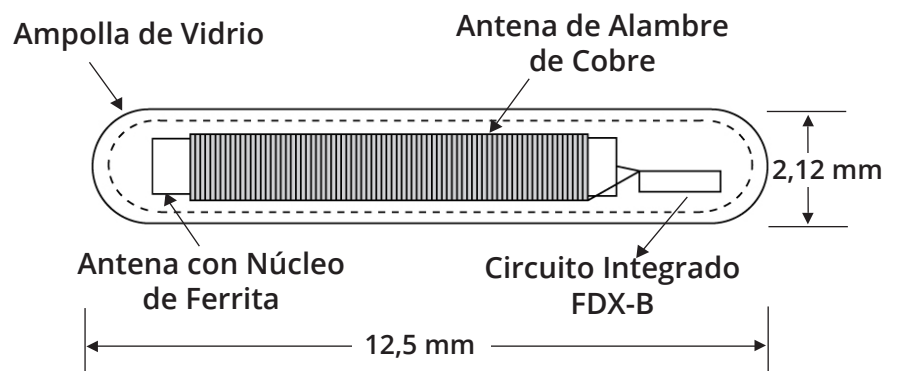
FEATURES

- Enhanced read range performance
- Low-frequency 134.2 kHz operation
- 64-bit identification code
- ISO 11784/11785 FDX-B compliant
- Biocompatible glass encapsulation

APPLICATIONS

- In-vivo Animal Identification
 - Fisheries & Aquaculture
 - Marine & Fresh water
 - Remote detection in net pens, tanks, and slaughter facilities
 - Small & Large Mammal
 - Reptiles & Amphibians
 - Birds & Bats

GPT12 PIT TAG & DIAGRAM



Specifications	Description
PHYSICAL & ENVIRONMENTAL	
Dimensions	12.5 mm (± 0.4 mm) L X 2.12 mm (± 0.1 mm) diameter
Weight	115 mg (± 20 mg)
Antenna Type	Ferrite
Operating Frequency	134.2 kHz
ISO Conformance	ISO 11784 (ID code compatibility), ISO 11785 (communications protocol)
Duplex Mode	FDX-B
Manufacturer Code	985 per ICAR assignment
Encapsulation Material	Biologically inert glass
Read Distance	Antenna, reading system, and tag orientation dependent — see Reader-Antenna specification sheet
Read Speed	18 reads/second (ISO rate) / 32 reads/second (continuous)
Read Orientation	$0 \pm 60^\circ$ in both axes from optimal alignment with antenna
Powering	Inductively powered from transceiver reading equipment



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