GammaTag®

GAMMA STERILIZABLE RFID TAGS

TECH SHEET 40 rev. b

The next generation of RFID is here – GammaTag RFID tags from AdvantaPure. They're the first radio frequency identification tags that handle gamma radiation with no loss of data.

Two solutions are now available: the original GammaTag for reliable electronic data storage of single-use bioprocess components and other critical parts and the **new** GammaTag 500, one of the most durable, gamma-stable RFID tags available today. GammaTag 500's durability allows it to withstand repeated gamma sterilization processes, making it ideal for high volume items.

IDENTIFICATION

www.advantapure.com
www.gammatag.com

KEY FEATURES

- For items requiring gamma sterilization in pharmaceutical, biotechnology, medical device, and other critical applications
- Provides dependable, highly-secure identification
- Withstands a variety of chemical and environmental conditions
- Available in a variety of form factors
- Unlike bar code labels, no clear sight line for reading is needed
- Eliminates the burden and bulk of paper records and log books
- Electronically links to notes, databases, cleaning schedules, files, certifications, photos and illustrations, installation instructions, warning notices, disposal procedures, and other instructions
- Field testing recommended for each application

AdvantaPure® NewAge Industries
PURITY IN FLUID FLOW SYSTEMS®

P-E-T Process Equipment Tracking™

GammaTag®

GAMMA STERILIZABLE RFID TAGS

GammaTag is the first read/write RFID tag that maintains data integrity after gamma sterilization. It provides reliable electronic data storage for single-use bioprocess components and other parts from inception to disposal.

GammaTag is available exclusively from AdvantaPure.

Key Features

- Uses read/write RFID technology to identify critical process components in pharmaceutical, bioprocess/biomedical, food and beverage, and medical device industries
- Record and access the current status of process components on the spot, or use simply for identification (part number, lot number, gamma sterilization date, etc.)
- All critical packaging and labeling documentation resides on the component throughout its useful life
- Allows gamma radiation sterilization of a complete single-use system for the cleanest possible products
- Also withstands CIP sterilization processes
- GammaTag's read/write ability makes it unique – data may be written directly on the tag, unlike read-only bar code labels
- Provides reliable identification without the potential hazards of leachables found in permanent markers
- Will not fall off during cold storage
- RoHS compliant

GammaTag Applications

- Single-use systems
- Sample & production bags
- Manifolds
- Filters
- Tubing & hose
- Storage containers
- Boxes or pallets undergoing gamma radiation sterilization
- Dosimeters
- Medical devices

IDENTIFICATION

Phone: 215-526-2151 Toll Free Phone: 888-755-4370

www.advantapure.com
www.gammatag.com

Specifications

	GammaTag	GammaTag 500
Dimensions:	22mm in diameter x 2mm thick*	4mm x 52mm
Form Factor:	Laminated PCB	COA (Chip on Aluminum); 52mm length dipole antenna
Frequency:	13.56 MHz	2.45 GHz
Protocol:	ISO 15693 compatible	Hitachi
Unique ID:	64-bit	128-bit
Memory:	2 Kb (2,048 bytes)	read only
Temperature Range:	-20°C (-4°F) to 85°C (185°F)	0°C (32°F) to 40°C (104°F)
Typical Range:	up to 50mm (5cm)	up to 300mm (30cm)
Power Type:	passive; energized by reader/writer	passive; energized by reader
Gamma Radiation:	up to 45 kGy	cumulative dose of at least 500 kGy

*Other form factors available

New

With a form factor of just 4mm x 52mm, new **GammaTag 500** is slender, a convenient fit on a variety of items, and easy to apply. It handles repeated gamma radiation and autoclave sterilization processes.

GammaTag 500 is ideally suited to the biotech, pharmaceutical, medical device, gowning, and cleanroom supply industries.

GammaTag 500 Applications

- Gowns & uniforms
- High volume items
- Medical devices
- Surgical equipment
- Pharmaceutical & biotech processing equipment

Key Features

- A durable identification system for items requiring repeated exposure to gamma radiation
- Survives a cumulative amount of 500 kGy
- Available in wet (white backing, shown above) or dry inlet
- Works well with linear identification processes (conveyor belt, hanging items)
- Ideal for high volume items
- Also withstands autoclave sterilization processes
- Provides identification at a price point that makes item-level tagging practical
- Uses the globally available 2.45 GHz radio frequency
- Manufactured by Hitachi America, Ltd.
- View Hitachi's white paper on RFID tags and gamma radiation sterilization at www.gammatag.com

IDENTIFICATION

AdvantaPure® NewAge Industries
Purity in Fluid Flow Systems®

Phone: 215-526-2151 Toll Free Phone: 888-755-4370
www.advantapure.com
www.gammatag.com

GammaTag®

GAMMA STERILIZABLE RFID TAGS

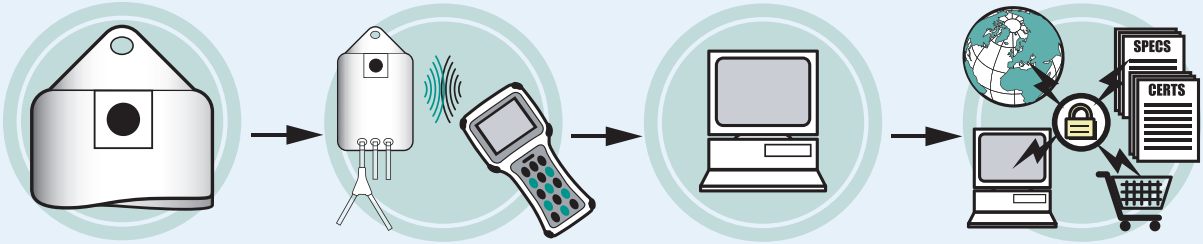
GammaTag Reader/Writers and Readers

The original GammaTag communicates with a convenient handheld reader/writer. The large display and buttons make operation easy. The reader/writer works with software, such as the PET system illustrated below, to record and track process equipment.

GammaTag 500 uses a stationary reader system and is designed to work with linear identification methods (conveyor belts, hanging items and garments). The compact device is network capable.

P·E·T Process Equipment Tracking™

Process Equipment Identification & Lifecycle Analysis System



RFID Attachment Methods

Various attachment methods are available for different types of process components.

Portable Handheld Reader/Writer

The handheld reader/writer identifies each device by its serial number.

Lifecycle Analysis Tool

Data is transferred to a local computer to track equipment, maintain wear-related events, and store critical information.

Secure Internet Ordering

In the case of AdvantaPure sanitary hose products, a secure web site eases the ordering of replacement parts.

Purity in Fluid Flow Systems®

Address: NewAge Industries AdvantaPure®
145 James Way
Southampton, PA 18966 U.S.A.

Toll Free Phone: **888-755-4370**
Phone: **215-526-2151**
Toll Free Fax: **888-258-4293**
Fax: **215-526-2167**
Web Site: **www.advantapure.com**
E-mail: **sales@advantapure.com**

AdvantaPURE® NEWAGE INDUSTRIES

ISO 9001:2000 CERTIFIED

DISTRIBUTED BY:

saniflex ab

Dalénum 33, 181 70 LIDINGÖ, SWEDEN
Tel: +46 (0)8-7652979, Fax: +46 (0)8-7654030,
E-mail: saniflex@saniflex.se
Website: www.saniflex.se

Developed in partnership with ProcessHQ PURE AND SIMPLE℠

NEWAGE INDUSTRIES

ESOP Employee Owned for Your Benefit

Celebrating 55 Years of Service 1954-2009

6/17/09