

# RFID/NFC GLASS TAG



Global Tag **GLASS TAG** is a series of RFID (LF 134 kHz or HF ISO14443 NFC) tags embedded in glass housings. Thanks to their compact design and excellent size-to-performance ratio, these tags ensure reliable identification in applications where space is limited.

Their resistance to immersion in salt water, alcohol, oil, 10% HCl and ammonia makes them a robust solution for harsh and chemically aggressive environments. GLASS TAGs are suitable for applications such as livestock and animal identification, tracking of medical equipment, and environmental or wildlife studies, where long-term durability is essential.

The products of the GLASS TAG series comply with ISO standards and are available with parylene coating to prevent tag migration once implanted. Customization options, including encoding and identification features, allow easy integration into tracking systems.

## MECHANICAL AND ENVIRONMENTAL SPECIFICATIONS:

**Available sizes with HF ISO14443/NFC (IC chip N-Tag216):** 2,12x12mm

**Available sizes with LF 134Khz (IC chip EM4305):** 1,25x7mm; 1,4x8mm; 2,12x8mm; 2,12x12mm; 3x15mm; 4x32mm

**Weight:** from 0,1 to 0,8gr.

**Material:** BIO GLASS 8625

**Color:** transparent color

**Class Protection:** IP68 (Totally protected against ingress of solid / Protected against long period of immersion)

**Storage Temperature:** -40 °C to +90 °C, 1000 hours

**Peak Temperature:** +120 °C for 100 hours; +140 °C for 10 hours

**Weather Ability:** Very Good, including UV resistance and sea water

**Delivery format:** Individual

**Expected lifetime:** Years in normal operating conditions

**Chemical resistance:**

Waterproof of Chemical: according to IP68

Resistance to immersion in salt water, alcohol, oil, 10 % HCL and Ammoniac

**Mechanical Resistance: Shock:** IEC 68-2-29 / **Vibration:** IEC 68-2-6

## CHIP SPECIFICATION AVAILABLE:

	LF 134Khz	HF 13,56MHz
Device type	N.D.	N.D.
Air interface protocol	N.D.	ISO14443
IC Type Available	EM4305	NXP Ntag216
Read Range	From 1 to 40cm	From 1 to 10cm

## CUSTOMIZATION OPTIONS :

**Pre-Encoding:** Specific encoding of the memory which makes tag compatible with devices for subcutaneous injection

## APPLICATION NOTE:

- Livestock and animal identification
- Tracking of medical equipment
- Environmental and wildlife studies

## ORDER INFORMATION:

### PRODUCT CODES:

GT-GLSSY\_2\_12-NTAG216 → 2,12x12mm N-Tag216

GT-GLSSY\_4\_32-EM4305 → 4x32mm EM4305

GT-GLSSY\_3\_15-EM4305 → 3x15mm EM4305

GT-GLSSY\_2\_12-EM4305 → 2,12x12mm EM4305

GT-GLSSY\_2\_8-EM4305 → 2,12x8mm EM4305

GT-GLSSY\_1\_8-EM4305 → 1,4x8mm EM4305

GT-GLSSY\_1\_7-EM4305 → 1,25x7mm EM4305

### For more information, do not hesitate to contact us:

**Global Tag Srl** - Via Zanardelli 13/A 25062 Concesio (BS) - Italy

**P** +39 030 2005259

**S** global-tag

**W** [www.global-tag.com](http://www.global-tag.com)

**M** [sales@global-tag.com](mailto:sales@global-tag.com)

## DISCLAIMER:

The information in this document is subject to change without notice. Global Tag assumes no responsibility for any errors that may appear in this document. Application recommendations are guidelines only - actual results may vary and should be confirmed. This is a general-purpose product not designed or intended for any specific application. Global Tag Srl or its subsidiaries are not responsible for the performance or support of third party products and does not make any representations or warranties whatsoever regarding quality, reliability, functionality, or compatibility of these devices or products.