

Product Data Sheet



Eureka-111 125kHz Passive Tags

Eureka range 125kHz passive tags (without battery) offers a large selection of Read Only, Read/Write and anti-collision radio frequency identification (RFID) tags for use in a wide variety of data collection and identification applications.

How a passive tag works

125kHz passive tags operate as miniature radio frequency transponders. The tags remain in a powerless state, retaining all their memory settings, until they enter a 125kHz interrogation field produced by an antenna. At this point, low frequency inductive coupling occurs, charging the tags on board capacitor to provide the power for the tag to transmit the full, or part contents, of its memory depending on what the tag reader has requested.

Benefits of low frequency

The utilisation of low frequency inductive coupling ensures that the tag can function through most non-conducting materials, allowing tag operation in very difficult or harsh environments.

Availability

Avonwood has a large range of standard built passive RF tags available to suit most solutions. These tags range from 20mm, 30mm or 50mm round disc tags, ISO credit card tags, to high pressure/temperature tags, most of which are

available in read only or read/write formats.

Performance

Passive tags can typically achieve a read range of between 0.3m - 1m from a standard Eureka self-tuning reader.

Enclosures

Most of the tags can be supplied with enclosures to suit an application, from key fobs to watches.

Our range of passive tags include:

- Key Fob Tags
- Glass Tags
- Hexagonal P.E.T. Tags
- Over moulded Disc Tags
- Epoxy Discs (Glass Reinforced)
- Moulded Discs with Hole
- Clear Flexible
- ISO Credit Card Tag
- Wrist Band Tag

Hands free data collection

- Allows the remote monitoring of assets

Line of sight not required

- Greater flexibility in harsh environments

Excellent Read/Write Distance

- Up to 1m read range which increases installation options

Long life

- Reduces operating and replacement costs

Small sizes & weights

- Allows suitability to a variety of applications

Durable construction

- Able to withstand industrial solvents, impact & vibration

Reliable operation

- Through non conductive materials means tags not affected by dirt, paint, snow, ice etc

Read only and read/write

- Different tag versions available allowing greater flexibility and usage

