



RFID TRANSPONDERS

Livestock Identification

Intelligent solutions for consumer safety and animal traceability



Overview

In recent times it has become increasingly important to know the exact identity and history of livestock. RFID transponders are a very useful tool used to trace animals back to their origin. The Electronic Units are packaged into ear tags, or glass tags, which can be directly injected, or sealed into a bolus which stays in the animal's stomach.

Tags contain a unique number, which enables immediate and accurate identification of the animal. The information can then be used, together with software or farm management programs, for feeding, weighing, disease control, breeding and traceability assurance.

RFID transponders can be used for calves, adult cattle, sheep, pigs and goats. Once tagged and registered the animal can be monitored for movement, which helps to identify sources of dangerous diseases like BSE and Foot and Mouth.

Benefits

- Proven safety records
- Fraud prevention – prevents fraudulent declaration of the animal's age or origin
- Proves ownership in the case of theft.
- Certificate of origin for stockbreeding
- Instant and accurate identification
- Ability to trace food from source
- Assists with farm management programs
- Passive tags – no batteries
- Products conform to ISO regulations (11784-11785)



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Food & Animal

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Transponder Specifications

	Glass tag 2.12 x 12mm	Glass tag 3 x 15mm	Glass tag 4 x 22mm	Glass tag 4 x 34mm
Diameter	2.12mm	3.15mm	4mm	4mm
Length	12.0mm	15.5mm	21.7mm	34.5mm
Material	BIO GLASS Parylene coating on request	BIO GLASS Parylene coating on request	BIO GLASS Parylene coating on request	BIO GLASS
Weight	95mg	250mg	630mg	1080mg
Operating frequency	134.2kHz ISO 11784-85	134.2kHz ISO 11784-85	134.2kHz ISO 11784-85	134.2kHz ISO 11784-85 IDEA approved
Operating temperature	-25°C to + 85°C	-25°C to + 85°C	-25°C to + 85°C	-25°C to + 85°C
Peak temperature	120°C 100h 140°C 8h	120°C 100h 140°C 8h	120°C 100h 140°C 8h	120°C 100h 140°C 8h
Chemical	Most chemicals	Most chemicals	Most chemicals	Most chemicals
Shock Vibration	IEC 68-2-29 IEC 68-2-6	IEC 68-2-29 IEC 68-2-6	IEC 68-2-29 IEC 68-2-6	IEC 68-2-29 IEC 68-2-6
Available IC	RO = Zodiac OTP = Q5, Hitag S	RO = Zodiac OTP = Q5, Hitag S	RO = Zodiac OTP = Q5, Hitag S	RO = Zodiac OTP = Q5, Hitag S
Application	Injectable for pigs	Injectable for sheep and goats	Injectable for calves, cattle. Ear tag for sheep and goats	Core of the bolus

Products with other IC's, please contact Sokymat

	E-unit 27mm	E-unit 24mm	E-unit xx mm
Internal Diameter	20mm	20mm	xx mm
External Diameter	27.4mm	24.4mm	xx mm
Thickness	0.85mm	0.85mm	xx mm
Weight	1.1g	0.7g	xx g
Operating frequency	134.2kHz ISO 11784-85 IDEA approved	134.2kHz ISO 11784-85	134.2kHz ISO 11784-85
Operating temperature	-25°C to + 85°C	-25°C to + 85°C	-25°C to + 85°C
Packaging	Resists the most demanding encapsulation process. Sokymat can provide support in the industrialization phase upon request	Resists the most demanding encapsulation process. Sokymat can provide support in the industrialization phase upon request	Resists the most demanding encapsulation process. Sokymat can provide support in the industrialization phase upon request
Available IC	RO = Zodiac OTP = Q5, Hitag S	RO = Zodiac OTP = Q5, Hitag S	RO = Zodiac OTP = Q5, Hitag S
Application	Ear tag for cattle, deer, buffalo	Ear tag for sheep, goats and pigs	According to your requirements

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