

## PACK FOR SHEEP & GOATS



### Customer benefits:

- Optimal combination of products for the identification of sheep and goats
- High retention of the bolus in the reticulum
- Bolus extremely durable, resistant to gastric juice of the animals
- Allows for maximum rotation and aeration of the ear tag
- Easy application

### Product description:

This pack combines the ruminal bolus Z20 with the visual ear tags for a complete and fraud-proof identification of sheep and goats, as required by the CE Regulation 21/2004, mandatory since 1<sup>st</sup> January of 2010.

Conventional ear tags, made from a durable and flexible thermoplastic material, are a 2-piece system, laser marked according to specifications required. Available in a yellow color or in any other colour required, flag or button shape, the visual ear tag is well used in combination with the ruminal bolus for the identification through RFID technology of small ruminants.

The ceramic bolus is based on a capsule containing a 32 mm Half Duplex (HDX) RFID transponder, which requires no battery and contains the indelible RFID identification code. The code can be read independently of the position of the transponder, whether the animal is stationary or in motion, through any non-conductive material. The application of this device is oral and it is kept in the reticule or second stomach of the ruminant.

## TECHNICAL DATA:

### Ruminal bolus Z20

Size (Ø x L):	11.0 mm ± 0.3 x 55.0 mm ± 1.0
Weight:	typ. 20 g, min. 19.2 g
Operating temperature:	-25°C to +85°C
Storage temperature:	-40°C to +100°C (1000 hours between -40°C to +125°C)
Passive, without battery:	Powered through the electromagnetic field transmitted by the reader antenna
Working frequency:	134.2 kHz
Memory capacity:	64 bits; unique code according to ISO 11784 and ISO 11784-AMD1
Typical reading distance:	Up to 25 cm with a Gesreader Up to 100 cm (depending on the orientation of the transponder with respect to the reader's antenna) with an F210 reader
Reading time:	70 ms
Housing:	Smooth-surface ceramic capsule (patented)
Approved by:	European Commission JRC-ISPRA (No. JRC/151/2007)



### Visual ear tag

Size:	≈ 37.0 x 41.5 mm for the flag version (W x H) ≈ 24.5 mm for the button version (Ø)
Weight of both pieces:	≈ 5.14 g for the flag version ≈ 2.88 g for the button version
Minimal distance between both parts:	9.5 mm
Material type:	Polyurethane
Material hardness:	92 units Shore-A
Separation force:	≈ 26.7 Kg
Other specifications:	Laser-printed without addition or subtraction of pigments, which delivers a minimal contrast of 74% black



Subject to change without notice

DATAMARS is a leading global supplier with a 20-year industry expertise in high performance identification solutions based on RFID technology.

Having extended its product portfolio to Rumitag's identifiers, readers and antennas, developed and sold internationally for more than 20 years for fast and reliable livestock identification, DATAMARS works to provide farmers around the world with products and support that facilitate their daily work thanks to the use of electronic identification.

## DATAMARS

Corporate Headquarters:

Via ai Prati  
6930 Bedano-Lugano  
Switzerland  
Phone: +41 91 935 73 80  
Fax: +41 91 945 03 30

livestock-id@datamars.com

www.datamars.com