

## RUMINAL BOLUS Z20 HDX TRANSPONDER

according to ISO Standard 11784/5 and ISO 11784-AMD1



### Customer benefits:

- Totally passive, no battery
- Optimized for livestock animal implantation
- High retention in the reticulum
- Permanent numeric digits code
- Extremely durable, resistant to gastric juice of the animals

### Product description:

Ceramic bolus used for sheep and goats identification 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 cannot be manipulated, is not affected by normal electromagnetic interference or X-rays and is unique worldwide. The code can be read independently of the position of the transponder, whether 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:

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:	Zirconium Silicate > 90% sealed by silicone (patented)
Approved by:	European Commission JRC-ISPRA (No. JRC/151/2007)

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

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