



PAMPA

Gateras Electrónicas

www.GaterasPampa.com.ar



ANTENA PAMPA III

User Manual

1. Introduction

Thank you for choosing the PAMPA ANTENNA.

The PAMPA III ANTENNA is an accessory designed for use with the PAMPA CLOCK. It functions as a low-frequency RFID reader for the automatic recording of racing pigeon arrivals.

The system detects and reads the RFID tags attached to the pigeons as they pass through the antenna, then automatically transmits this information to the PAMPA CLOCK for storage and processing.

General Features of the PAMPA ANTENNA:

- Automatic reading of PAMPA Chip Rings.
- Direct communication with the PAMPA CLOCK.
- Powered directly by the PAMPA CLOCK.
- Rugged design for use in pigeon lofts.
- Continuous operation during races and training sessions.
- Compatible with PAMPA clocks.

2. Product content

The package includes:

- 1 x "PAMPA III" Antenna.

3. Installation

3.1 Requirements

The PAMPA ANTENNA must be connected directly to the PAMPA CLOCK in order to operate.

Power is supplied directly by the PAMPA CLOCK through the integrated connection cable.

IMPORTANT:

Verify that all connections are properly installed before using the system.

Avoid installing the antenna near metal surfaces, as they may interfere with its performance.

Do not use damaged or modified cables.

It is extremely important that the electrical power supply is free from electrical noise, as interference may significantly affect the performance of the system.

Make sure there are no other devices connected to the same power line that could generate electrical interference, such as computers, switching power supplies, or similar equipment.

3.2 Device Installation

3.2.1 Recommended Installation Location

The PAMPA ANTENNA should be installed at the entrance of the loft, ensuring that the pigeons pass completely across the active reading area.

It is recommended to:

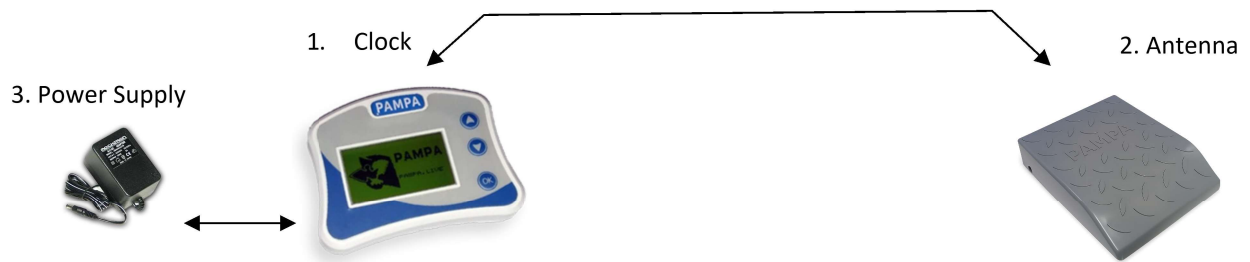
- Install the antenna on a firm and stable surface.
- Prevent water from accumulating on or around the antenna.
- Keep the area free of nearby metal objects that could interfere with operation.
- Ensure that pigeons pass over the antenna one at a time.

IMPORTANT:

The presence of metal objects beneath or around the PAMPA ANTENNA may affect the performance of the RFID system and reduce both the reading range and the reliability of tag detection.

3.2.2 Connecting to the Clock

The following diagram illustrates a complete connection setup:



3.2.3 Operation Verification

Once the antenna has been connected:

- 1) Pass the test chip over the active reading surface. The chip must be held in a vertical position, just as it would be when attached to a pigeon's leg.
- 2) The PAMPA CLOCK should emit an audible or visual indication confirming that the chip has been successfully detected.
- 3) Test each antenna sensor individually. The minimum reading distance should be 8 cm (3.1 in) for every sensor.

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4. Recomendaciones de instalación

Para asegurar un funcionamiento correcto:

- No colocar objetos metálicos debajo de la ANTENA.
- Evitar cables excesivamente largos (Máximo recomendado 20mts).
- Mantener limpia la superficie del equipo.
- Evitar golpes o torsiones del gabinete.
- No sumergir el equipo en agua.
- Instalar en un área protegida de inundaciones o acumulación de humedad.

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5. Technical Specifications

- Function: Low-frequency RFID tag reader.
- RF technology: 125 kHz RFID.
- Operating mode: Read-only.
- Power supply: 12 V DC, supplied directly by the PAMPA CLOCK.

- Connection type: Direct wired connection to the PAMPA CLOCK.
- Communication type: Wired.
- Maximum recommended cable length between the antenna and the clock: 20 m (65.6 ft).
- Operating temperature range: 0 to 60 °C (32 to 140 °F).
- Antenna Dimensions:
 - 1-field antenna: 15 × 18 cm (5.9 × 7.1 in)
 - 4-field antenna: 50 × 20 cm (19.7 × 7.9 in)
 - 6-field antenna: 74 × 20 cm (29.1 × 7.9 in)
 - 12-field antenna: 78 × 35 cm (30.7 × 13.8 in)

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6. Care and Maintenance

To clean the antenna:

- Use a soft, damp cloth.
- Do not use abrasive cleaners.
- Do not clean the antenna with high-pressure water.
- Do not immerse the PAMPA ANTENNA in water.

Recommendations:

- Store the antenna in a dry place when not in use.
- Avoid prolonged exposure to direct sunlight or extreme heat.
- Periodically inspect the condition of the cables and connectors.

Warnings and Best Practices:

- Do not open or disassemble the device.
- Do not modify the original wiring or cables.
- Do not use the device if it shows any visible signs of damage.
- Keep the antenna away from strong sources of electromagnetic interference.
- Use only accessories approved by the manufacturer.

The warranty does not cover damage caused by:

- Improper use of the device.
- Impacts, drops, or physical abuse.
- Liquid ingress.
- Unauthorized modifications or repairs.
- Incorrect installation.

If you have any questions, suggestions, or require assistance, please contact us:

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