



## Product Description

The Feed Ration controller type FT-3031 was conceived and designed to help dairy farmers to improve the efficiency of their feed ration preparation and distribution process. It features fast and precise weighing technology, designed for operation in dairy farm environments.

Wireless remote operation, the storage of data and data transfer via PDA or Smartphone in MS Windows Mobile Excel format provide for simply operation, cost reductions and make the transfer of information easy.

Intelligent software in easy to use Excel tables make keeping track of your daily, monthly and yearly production cost easy and can be adapted to every farmers individual needs. Communication between the Feed Ration Controller 3031 and PDA or Smartphone is via Bluetooth interface.

Direct operation is simplified through user friendly function keys, an easy to read text display and a logical sequence structure.

OIML R67 certification for class III up to 10 000 parts is offered on a optional basis.

## Available Accessoires

- Protective frame and / or swivel-mounted holder

## Key Features

- Single or multi range scale
- Application programme for feed mixing
- Feed efficiency display
- User-friendly entries by function keys
- Dot matrix display (240 x 128 pixels) with adjustable backlighting
- Bluetooth™ wireless interface
- Data transfer to and from PDA/PC
- Communication with MS-Excel
- Battery buffered real-time clock
- Power supply 12 V DC

## Options

- Serial interface RS232C
- Digital I/O-card (2x input, 8x output)
- Power supply 24 V DC or 48 V DC

## Specifications

### DISPLAY AND KEYBOARD

Display	Dot matrix, 240 x 128 pixels; adjustable backlighting and contrast
Keyboard	32 keys, foil membran with tactile feedback
Restricted access	Key lock and user password; basic functions can be locked against unauthorized access

### MEASUREMENT FUNCTION

Measurement rate	Up to 67 measurement values per second
Digital filter	5 step adjustable digital filter
Resolution	Internal up to 10 million counts
Scale functions	Gros, tare, net, zero, motion detection, max. hold
Application programmes	Weighing and taring, agribusiness scale and dynamic switching

### AGRIBUSINESS SCALE

Download programme	Memory for up to 10 variable recipes, multiple processing of recipes for feed mixtures, automatic component switchover by variable timer function, dosing display, component check, feed value calculation, dry cow management, process log with date and time
Upload programme	Unload function, residual quantity display, process log with date and time

### LOAD CELLS

Excitation	5 V DC or 5 V AC 33 Hz
Number of load cells	Up to 4 pieces (40-2 000 $\Omega$ )
Connection	4 or 6-wire technique, max. cable length 80 m for 0.14 mm <sup>2</sup> and 6-wire connection

### COMMUNICATION

Standard interface	Bluetooth wireless interface class 2
Optional interface	Serial RS232C interface or CAN bus
Communication with PDA	Data transfer (recipes, unload data), remote control function, auxiliary display, data exchange with PC
Communication with PC	Via PDA/Smartphone: Data transfer (recipes, unload data) to and from MS Excel

### POWER SUPPLY

Power requirements	12 V DC (optionally 24 V DC or 48 V DC)
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### ENVIRONMENT AND ENCLOSURE

Operation temperature	Between -15 °C and +50 °C, 90% RH max., non-condensing
Enclosure	Plastic housing made of polycarbonate, IP67 protection class
Size	300 x 228 x 90 mm (length x width x height)

## Dimensions (in mm)

