

Electronic coin mechanism

RM5 Evolution

The coin validator with undisputed quality and reliability.

Designed to fully meet the different requirements of different sectors such as: vending, gaming, carwash, service stations, recreation grounds, self laundries, parking areas, gyms, and the whole self-service sector in general.

RM5 Evolution is the result of Comestero Group investment aimed at providing the market with a reliable and extra versatile product.

The new electronic system developed for this machine couples an extraordinary selectivity, thanks to 3 pairs of inductive sensors and 3 pairs of optical sensors for measuring, with an extreme programming versatility. As a matter of fact, via the Cloning system, the configuration parameters can be transferred from a coin mechanism to another.



Six different versions of this coin mechanism are available:

Model	Coin entry	Coin reject
G	Top	Bottom
F	Top or front	Front
B	Top or front	Bottom
V	Top	Front
M	Top or front	Bottom
S	Top	Bottom

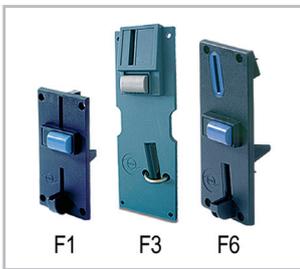


Fig. 1



Fig. 2

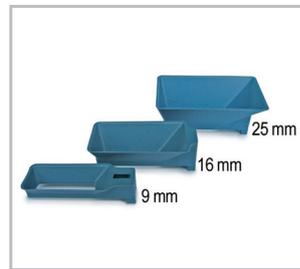


Fig. 3



Fig. 4

General characteristics

3 pairs of inductive sensors processing 6 different parameters concerning the coin material and size.

3 pairs of optical sensors to recognize the coin diameter.

Mechanical antifishing device.

Electronic antifishing device.

Electronic anti "intrusion" device.

Wire cutting blade.

Automatic sensor compensation system for temperature, voltage and light variations.

Interfaces

Serial interface to talk with external systems (portable programmer, pc) to adjust, test and update the operating value/parameter tables.

Configurations

00 Parallel Validator

01 Parallel Validator with coin sorter

E0 Spain mode validator

AT Spain mode validator with differentiated time pulses

B0 Binary Validator

BC Confida Binary Validator

0M Multimpulse Validator

10 Dual price totalizer

14 Single price totalizer with internal time reset

FD Totalizer for fountains

20 Credit pulse emission totalizer

21 Credit pulse totalizer with sorter control

30 Progressive timer

3R Progressive timer with request timed credit emission

3C Progressive timer with counter output

40 Totalizer with on request credit pulses

60 Totalizer with on request timed credit emission

70 Single price multiple sale totalizer.

Options

- Front plates: mod. F1 (60x118 mm) - F3 (60x180 mm) - F6 (60x152 mm), (Fig. 1- 2).

- Coin collecting funnels with different heights: 9, 16, 25 mm (Fig. 3).

- Adaptor for 3 1/2" to 5" validators (Fig. 4).

- A vast range of coin sorters and adaptors.

- AGCAVO10P: standard cable to connect the coin mechanism to the host machine. Available lengths: 15 - 20 - 40 - 60 - 80 - 100 - 150 - 250 cm.

- RMPRINTERF5: wiring to connect an RM5 Evolution to a pc in serial mode.

- SERIAL USB: cable to turn a serial connection into a USB connection.

Outputs

- Credit reporting: Parallel, Binary, Pulse.

- Sorter control: up to 5 sorting channels with protection against short circuit and overcharge.

Technical characteristics

Dimensions (l x h x w) (mm)	102 x 89 x 52
Weight (g)	185
Power supply	12 ÷ 24 Vdc ±10%
Input	35 mA max, 12 Vdc - Recognition: 50 mA max, 12 Vdc Acceptance: 340 mA max, 12 Vdc
Max. current	200 mA a 24 Vdc ±10% (channel 1 to channel 4) 800 mA a 24 Vdc ±10% (channel 5 to channel 6)
Operating temperature	0 ÷ +55°C - 10 ÷ 75% of non condensed humidity
Accepted coins (mm)	Ø 16 ÷ 31,5 - thickness up to 3,3 mm
Conformity to Standards	EN 61000-6-3: Emissions EN 61000-6-1: EMC EN 55022: Immunity from Radio Noises and Interferences
Recognition channels	up to 59, all redirectable to outputs. The first 6 support the Self-Prog mode
Outputs	Open collection type (NPN)

Tools

Clone 5

Software for programming, configuration and diagnostics (not available in ccTalk version).



Programmer

The portable tool to carry out programming and configuration operations directly on site (not available in ccTalk version).



USB Kit

Consisting of 1 board and 1 USB cable, allows to connect at the same time to the pc 1 RM5 validator and 1 NV9-NV10 banknote reader without requiring any additional adaptor.



Euro coin adjustment file

Can be downloaded free of charge from Comestero Group website.

