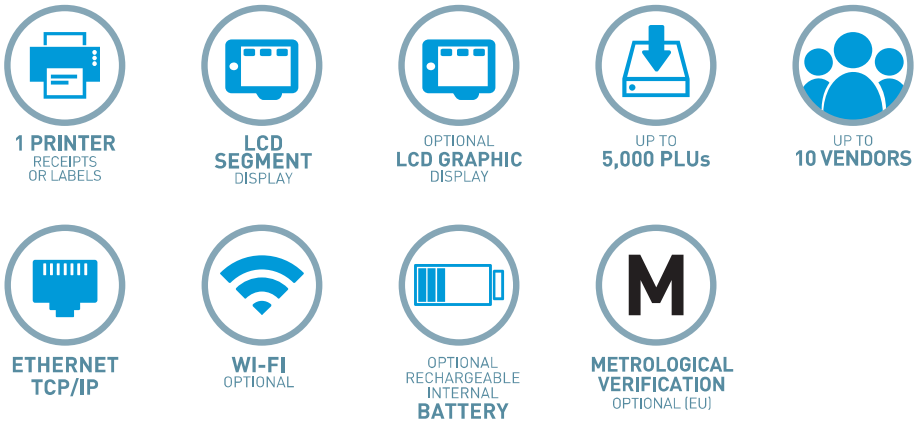
500 RANGE
ELECTRONIC SCALES

MISTRAL
series





Characteristics and functionality

Main characteristics

- Electronic scale with higher visibility display options.
- Models with receipt printer or label printer (suitable for receipts).
- Variety of formats.
- Functional and robust design.
- Compliance with EU Regulation 1169/2011 on the provision of food information to consumers (only for M-525).

Features

- Extensive information for each PLU: normal price, price for weight scales and by kg/100 g, 2 names of 20 characters, 10 free texts of 24 characters, 1 text of 3,000 characters (in M-525), etc.
- PLU search by code or name.
- Preset keys to programming menus: to change prices, register PLUs or vendors, etc.
- Direct access to 999 PLUs from the keyboard.
- Drill down menus.
- Printing of scale menus.
- 2 programmable macros (in M-520, M-520 B and M-525): recording of a sequence of keys to create direct access to any task (reopening of receipts, lists, change in batcher number, etc.).
- Sales and management reports: sales (by article, vendor, time frames, last month, etc.), balance available in the cash drawer, modified PLUs, etc.
- Fast and reliable communication between scales, with PC and mobile devices (via DWS).
- Stocks management on the scale.
- Stock / order mode.

Capacity / Accuracy

- Multi-range (3,000 divisions): 6 kg / 2 g - 15 kg / 5 g.
- Optional:
  - > Mono-range (3,000 divisions): 15 kg / 5 g or 30 kg / 10 g.
  - > Multi-range (3,000 divisions): 15 kg / 5 g - 30 kg / 10 g.
  - > Mono-range (6,000 divisions): 12 kg / 2 g or 30 kg / 5 g.

Available formats

- Flat.
- Pole.
- Double body.
- Hanging.
- Self-service.

Construction

- Highly resistant ABS plastic casing in counter formats.
- Stainless steel casing in hanging format.
- Stainless steel plate.
- Access to all non-metrological components without the need to unseal the scale.

Displays

- Backlit LCD segment display (W150.2 X H43.4 mm) for vendor and buyer (showing weight, price / kg, total, tare, vendor and name of articles).
- Optional:
  > LCD matrix graphic display (W134 x H41 mm) for vendor and buyer (check availability of models). Possibility of showing: logos, profitability codes and warning messages sent from a PC (on vendor display) and advertising messages with animated effects on buyer display.

Printer

- Models available with 1 printer for receipts or 1 printer for labels (also suitable for receipts by changing the paper roll and the working mode).
- 54 mm thermal printer.
- Resolution: 8 dots/mm.
- Speed depending on models:
  > M-520 and M-525: 100 mm/sec.
  > M-520 B: 60 mm/sec.
- Cassette for immediate paper roll change (in label printers).
- Optional:
  > Linerless (in label printers).

Receipts

- All the models:
- 15 fonts (6 monospaced + 9 multispaced: more modern and legible).
- Up to 40 items.
- EAN-13 barcode.
- 9 payment methods.
- Total in National currency and another 3 different currencies.
- Discounts per line and total.
- 2 fixed formats + 1 programmable format.
- 4 logos per receipt.
- Name of vendor.
- Customers on account.



Labels

- 15 fonts (6 monospaced + 9 multispaced: more modern and legible).
- 40 logos.
- EAN-13 barcode.
- 40 fields of information.
- 100 programmable texts.
- Manual and automatic pre-packing modes.
- Automatic adjustment of the paper detection sensor.
- From W30 x L30 mm to W60 x L100 mm.
- 20 fixed formats + 10 programmable formats.
- 3 levels of totals.
- Printing of "n" identical labels.
- Printing with 90 º, 180 º and 270 º rotation.
- Packaging date, expiry date and extra date (for any application).
- Alphanumeric batch number.
- 2 types of generic traceability (for meat, fish, fruits, vegetables, etc.) up to 20 products. Included in the prevailing European legislation on bovine traceability.



Food information

- Minimum letter size: 1.2 mm.
- Effect (**bold**, underlined, or **both**) for each character in the text.
- Possibility of using the general text "G" (3,000 characters) for ingredients, in lower case or UPPER CASE to highlight allergens.
- Possibility of including a table of nutritional facts.
- Free texts (10 x 24 characters).
- For direct sale receipts and labels: possibility of indicating in the PLU name (with an * or other symbol) those that contain allergens and programming a text, such as "* Consult allergens".
- Possibility of printing 2 labels for each operation: programmable by PLU, configurable information, 2nd automatic or manual label (also to be used as promotional labels).
- M-525: Compliance with EU Regulation 1169/2011 on the provision of food information to consumers as of 13 December 2016.

Communications

- TCP/IP Ethernet for interconnection and connection to PC.
- RS-232, for connection to scanner.
- Optional: Wi-Fi.

Security

- Access to different protected programming menus via configurable passwords.

Interconnection

- Up to 10 scales per section.

Connectivity with other devices

- PC.
- Barcode scanner (powered by the scale –5 VDC–) to read EAN-13 bard codes.
- Cash drawer.
- Queueing system (for hanging scales).
- Connectable to a single load cell weighing platform, up to 400 x 400 mm max., and up to 30 kg. Consult compatible scales formats.

Software
(See section on software)

PC software:

- DFS:
  > Programming of scales.
  > Receipt of sales data.
  > Data backup copy.
  > Graphic design of receipts and labels (DLD).
  > Design and management of advertising images for graphic display.
- Integration tools: in Windows or Linux to facilitate communication with the Back-Office.

Scale firmware:

- DWS (Dibal Web Server):
  > Allows access to the information on each scale from any computer or mobile device with an Internet browser.

Power supply

- Mains: 110 up to 230 VAC.
- Depending on the models, also:
  > High performance rechargeable internal battery (M-520 B): up to 52 hours of life (calculated for 1,500 receipts, with 3 articles per receipt)* and connector to external battery 12 V.

Energy consumption

- 6.5-91 W (depending on the conditions of use).

* With segment display and back lighting disconnected. The charging and autonomy times may vary considerably in accordance with the temperature, age and condition of the batteries, use of back lighting, frequency of use of the printer, interconnection, etc.

1 LABEL PRINTER (OR RECEIPT)

Flat Format

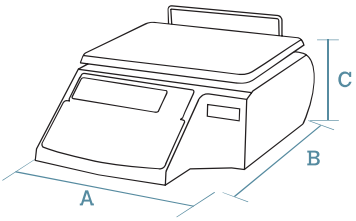


Dimensions

DATA IN mm

A	375
B	470
C	180

Plate dimensions: L360 x W260 mm.
Weight with packaging: 11.7 kg.





Cassette included.

	Displays	Printer	PLUs	Direct PLUs	Vendors	Power	Capacity / Accuracy	Reference
M-525 F	LCD Segment	Labels (or Receipts)	5,000	40x2 +9x2*	10	Mains	6 kg / 2 g - 15 kg / 5 g	7M251P2LGE__

(M) optional

* Using the Shift key and those of Vendor.

1 LABEL PRINTER (OR RECEIPT)

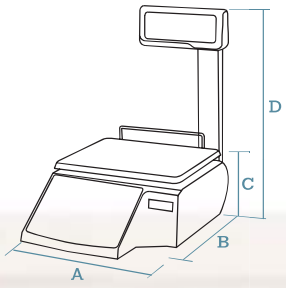
Pole Format





Cassette included.

Dimensions



DATA IN mm

A	375
B	470
C	180
D	565

Plate dimensions:
L360 x W260 mm.
Weight with packaging: 12.6 kg.

	Displays	Printer	PLUs	Direct PLUs	Vendors	Power	Capacity / Accuracy	Reference
M-525 P	LCD Segment	Labels (or Receipts)	5,000	70x2 +9x2*	10	Mains	6 kg / 2 g -15 kg / 5 g	7M251T2LGE__

(M) optional

* Using the Shift key and those of Vendor.

Options



> Graphic display (W134 x H41 mm).

Option	Characteristics	Ref.
Capacity 15 kg / 5 g	Mono-range (3,000 divisions).	...N_ _ (*)
Capacity 30 kg / 10 g	Mono-range (3,000 divisions).	...Y_ _ (*)
Capacity 15 kg / 5 g - 30 kg / 10 g	Multi-range (3,000 divisions).	...F_ _ (*)
Capacity 12 kg / 2 g	Mono-range (6,000 divisions).	...V_ _ (*)
Capacity 30 kg / 5 g	Mono-range (6,000 divisions).	...P_ _ (*)
Graphic display (W134 x H41 mm)	LCD matrix graphic display for buyer and vendor. (Check availability of models).	Consult
Linerless	Label or receipt on continuous adhesive paper without supporting paper (in label printer for M-525).	Consult
Wi-Fi	Wireless communications (IEEE 802.11n).	Consult
DFS Software	Scale configuration, receipt of sales data for processing with other IT applications, data backup (LBS), and labels and receipts graphic design (DLD). (See section on software).	7340F1U1
		7340FNU1
		7340D1U1
		7340DNU1
Technical DWS Firmware	For the remote configuration of the scale. (See section on software).	7340W101
Full DWS Firmware	For the remote configuration of the scale and processing of the information generated. (See section on software).	7340WN01
Metrological verification (M)	According to EU weighing directives. (See section on equipment metrological verification).	Consult

(*) The scale references with this capacity are obtained by replacing the last characters of the reference for the standard scale with the indicated ending.

Accesories



Ref: BCR73

Small Italian plate

L357 x W235 x H55 mm.



Ref: BCR74

Large Italian plate

L407 x W284 x H60 mm.



Ref: BU-C1229

Flat plate for hanging scales

L360 x W280 mm, instead of the semi deep plate.



Ref: BC-C039

Deep plate for hanging scales

Ø310 x H70 mm, instead of the semi deep plate.



Ref: BHN99

Interconnection switch

For M-520 B scales with rechargeable internal battery.



Ref: BHN85

Battery for the switch

Power battery for the BHN99 interconnection switch.



Ref: BCH18

Barcode scanner

Includes connection cable to the scale.



Ref: BL-P4642

Adapter for receipt printing in label printer

Required for standard size receipt rolls.



Ref: 497540A

Adapter for printing narrow labels

Note:

- The references correspond to standard models: Dark gray ABS plastic or stainless steel casing (depending on the format), backlit LCD segment display, stainless steel flat plate in counter scales (semi deep stainless steel plate in hanging scales), cash drawer connector, queueing system connector in hanging scales and TCP/IP Ethernet communications. Capacity/Accuracy: 6 kg / 2 g – 15 kg / 5 g.