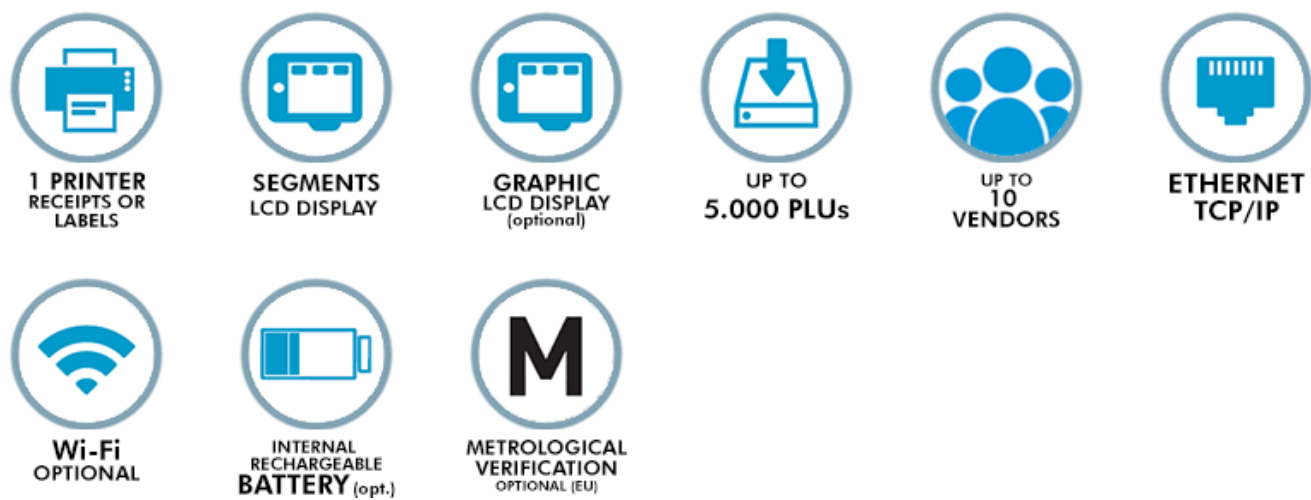# DIBAL

COUNTER SCALES MISTRAL SERIES (500 RANGE)

Price computing counter scales, with receipt or label printer and PC connection. High performance, easy to use and contemporary design scales.
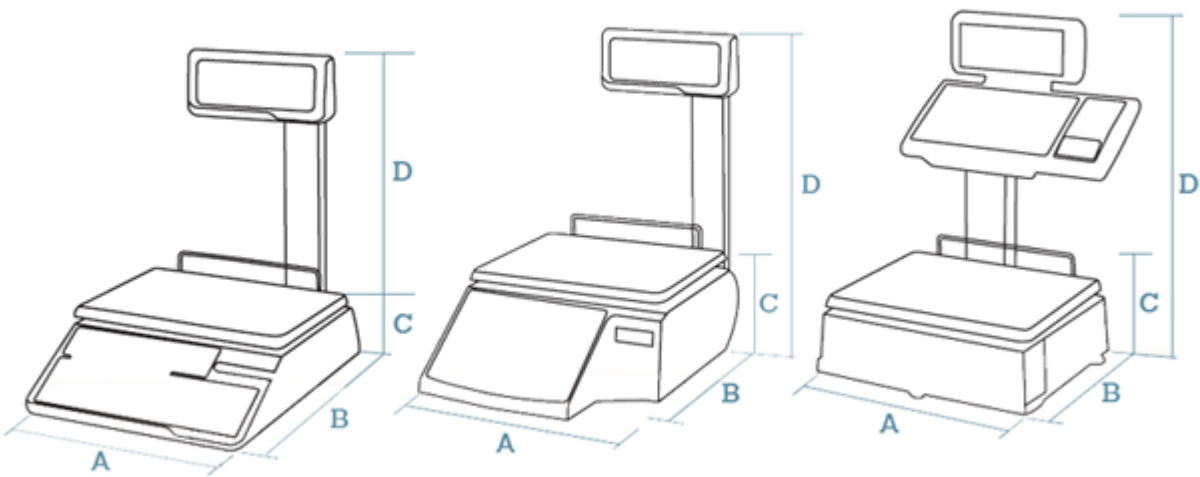
INFORMATION

1 PRINTER RECEIPTS OR LABELS

SEGMENTS LCD DISPLAY

GRAPHIC LCD DISPLAY (optional)

UP TO **5.000 PLUs**

UP TO **10** VENDORS

ETHERNET TCP/IP

Wi-Fi OPTIONAL

INTERNAL RECHARGEABLE **BATTERY** (opt.)

M METROLOGICAL VERIFICATION OPTIONAL (EU)

The Dibal Mistral Series counter scales are really easy to use and offer important features due to their memory and the ability to communicate with other scales, PC and mobile devices.

These retail scales boast a modern design and are available in various formats and with different displays. The immediate replacement of receipt or label rolls in the printers is facilitated thanks to the cassette system.

Data in mm

A	370 / 375 / 375
B	450 / 470 / 470

C	140 / 180 / 140
D	515 / 565 / 547

Plate dimensions (flat and pole format for receipts): L360 x W260 mm
Plate dimensions (flat and pole format for labels): L360 x W260 mm
Plate dimensions (double body format): L360 x W280 mm

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 (in M-520, M-520 B and M-525), 2 names of 20 characters (1 in M-510, M-510 B and M-515), 10 free texts of 24 characters (5 in M-510, M-510 B and M-515), 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.**
- **Option to record normal price for each article.**
- **Stock / order mode.**

CAPACITY / ACCURACY

- **Multirange (3,000 divisions): 6 kg / 2 g - 15 kg / 5 g.**
- **Opcional:**
  - Monorange (3,000 divisions): 15 kg / 5 g or 30 kg / 10 g.
  - Multirange (3,000 divisions): 15 kg / 5 g - 30 kg / 10 g.
  - Monorange (6,000 divisions): 12 kg / 2 g or 30 kg / 5 g.

FORMATS

- **Flat.**
- **Pole.**
- **Double body.**

CONSTRUCTION

- **Highly resistant ABS plastic casing.**
- **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, for M-520, M-520 B and M-525. Possibility of showing: logos, profitability codes, 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.**
- **High resolution (8 dots/mm).**
- **Speed depending on models:**
    - M-520 and M-525: 100 mm/sec.
    - M-510 and M-515: 80 mm/sec.
    - M-510 B and M-520 B: 60 mm/sec.
- **Cassette for immediate paper roll change** (in label printers).
- **Optional:**
    - Linerless (in M-525).

RECEIPTS

- **All the models:**
    - 15 fonts (6 monospaced + 9 multispaced: more modern and legible).
    - Up to 40 items.
    - EAN-13 bar code.
    - 9 payment methods.
    - Total in National currency and another 3 different currencies.
    - Discounts per line and total.
- **M-510, M-510 B and M-515 models:**
    - 2 fixed formats.
- **M-520, M-520 B and M-525 models:**

- 2 fixed formats + 1 programmable format.
- 4 logos per receipt.
- Name of vendor.
- Customers on account.

LABELS

- **All the models:**
  - 15 fonts (6 monospaced + 9 multispaced: more modern and legible).
  - 40 logos.
  - EAN-13 bar code.
  - 40 fields of information.
  - 100 programmable texts.
  - Manual and automatic pre-packing modes.
  - Automatic adjustment of the paper detection option.
- **M-515 models:**
  - From W30 x L30 mm to W60 x L80 mm.
  - 20 fixed formats + 5 programmable formats.
  - 1 type of generic traceability (for meat, fish, fruits, vegetables, etc.) up to 10 products. Included in the prevailing European legislation on bovine traceability.
- **M-525 models:**
  - 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 90º, 180º and 270º 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

- **M-510, M-510 B and M-515 models:**
  - Minimum letter size: 1.2 mm.
  - Effect (bold, underlined, or both) for each character in the text.
  - Labels do not comply with the labelling of packaged food Regulation (only 5 texts of 24 characters are available).
- **M-520, M-520 B and M-525 models:**
  - 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 *

5

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 model complies 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 (in M-520, M-520 B and M-525).**
- **Optional:**
  ○ Wi-Fi.

SECURITY

- **Access to different protected programming menus via configurable passwords.**

INTERCONNECTION

- **M-510, M-510 B and M-515 models:** up to 5 scales per section.
- **M-520, M-520 B and M-525 models:** up to 10 scales per section.

CONNECTIVITY WITH OTHER DEVICES

- **PC.**
- **Bar code scanner** (powered by the scale – 5 VDC) to read EAN-13 bard codes (in M-520, M-520 B and M-525).
- **Cash drawer.**

SOFTWARE (SEE SECTION ON SOFTWARE)

PC software:

- **DFS:**
  ○ Programming of scales.
  ○ Receipt of sales data.
  ○ Data backup copy.
  ○ Graphic design of receipts and labels.
  ○ Design and management of advertising images for graphic display.
- **RMS*:**
  ○ Programming and management of scales.
  ○ *Does not manage:
    ▪ Images (of articles and advertising).
    ▪ Specific functions of Mistral scales.
- **DLD:**
  ○ Graphic design of receipts and labels.
- **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 (via passwords) from any computer or mobile device with an Internet browser.

POWER SUPPLY

- **Mains: 110 up to 230 VDC.**
- **Depending on the models, also:**
    - High performance rechargeable internal battery (M-510 B and 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.
    - Optional: Anti-blackout rechargeable internal battery 24 V and connector to external battery 24 V.

MODELS

—

M-510 F

Ref.: 7M101P2LGE_ _
Flat format

- **Displays:** LCD segments.
- **Printer:** Receipts.
- **PLUs:** 2,000.
- **Direct PLUs:** 45x2 + 4x2*.
- **Vendors:** 5.
- **Power:** Mains.
- **Capacity / Accuracy:** 6 kg / 2 g - 15 kg / 5 g.

* Using the Shift key and those of Vendor.

M-510 B F

Ref.: 7M111P2LGE_ _
Flat format with internal battery

- **Displays:** LCD segments.
- **Printer:** Receipts.
- **PLUs:** 2,000.
- **Direct PLUs:** 45x2 + 4x2*.

- **Vendors:** 5.
- **Power:** Mains / Battery.
- **Capacity / Accuracy:** 6 kg / 2 g - 15 kg / 5 g.

* Using the Shift key and those of Vendor.

M-520 F

Ref.: 7M201P2LGE_ _
Flat format

- **Displays:** LCD segments.
- **Printer:** Receipts.
- **PLUs:** 5,000.
- **Direct PLUs:** 40x2 + 9x2*.
- **Vendors:** 10.
- **Power:** Mains.
- **Capacity / Accuracy:** 6 kg / 2 g - 15 kg / 5 g.

* Using the Shift key and those of Vendor.

M-520 B F

Ref.: 7M211P2LGE_ _
Flat format with internal battery

- **Displays:** LCD segments.
- **Printer:** Receipts.
- **PLUs:** 5,000.
- **Direct PLUs:** 40x2 + 9x2*.
- **Vendors:** 10.
- **Power:** Mains / Battery.
- **Capacity / Accuracy:** 6 kg / 2 g - 15 kg / 5 g.

* Using the Shift key and those of Vendor.

M-510 P

Ref.: 7M101T2LGE_ _
Pole format

- **Displays:** LCD segments.
- **Printer:** Receipts.
- **PLUs:** 2,000.
- **Direct PLUs:** 45x2 + 4x2*.

- **Vendors:** 5.
- **Power:** Mains.
- **Capacity / Accuracy:** 6 kg / 2 g - 15 kg / 5 g.

* Using the Shift key and those of Vendor.

M-510 B P

Ref.: 7M111T2LGE_ _
Pole format with internal battery

- **Displays:** LCD segments.
- **Printer:** Receipts.
- **PLUs:** 2,000.
- **Direct PLUs:** 45x2 + 4x2*.
- **Vendors:** 5.
- **Power:** Mains / Battery.
- **Capacity / Accuracy:** 6 kg / 2 g - 15 kg / 5 g.

* Using the Shift key and those of Vendor.

M-520 P

Ref.: 7M201T2LGE_ _
Pole format

- **Displays:** LCD segments.
- **Printer:** Receipts.
- **PLUs:** 5,000.
- **Direct PLUs:** 40x2 + 9x2*.
- **Vendors:** 10.
- **Power:** Mains.
- **Capacity / Accuracy:** 6 kg / 2 g - 15 kg / 5 g.

* Using the Shift key and those of Vendor.

M-520 B P

Ref.: 7M211T2LGE_ _
Pole format with internal battery

- **Displays:** LCD segments.
- **Printer:** Receipts.

- **PLUs:** 5,000.
- **Direct PLUs:** 40x2 + 9x2*.
- **Vendors:** 10.
- **Power:** Mains / Battery.
- **Capacity / Accuracy:** 6 kg / 2 g - 15 kg / 5 g.

* Using the Shift key and those of Vendor.

M-510 DB

Ref.: 7M101D2LGE_ _
Double body format

- **Displays:** LCD segments.
- **Printer:** Receipts.
- **PLUs:** 2,000.
- **Direct PLUs:** 45x2 + 4x2*.
- **Vendors:** 5.
- **Power:** Mains.
- **Capacity / Accuracy:** 6 kg / 2 g - 15 kg / 5 g.

* Using the Shift key and those of Vendor.

M-510 B DB

Ref.: 7M111D2LGE_ _
Double body format with internal battery

- **Displays:** LCD segments.
- **Printer:** Receipts.
- **PLUs:** 2,000.
- **Direct PLUs:** 45x2 + 4x2*.
- **Vendors:** 5.
- **Power:** Mains / Battery.
- **Capacity / Accuracy:** 6 kg / 2 g - 15 kg / 5 g.

* Using the Shift key and those of Vendor.

M-520 DB

Ref.: 7M201D2LGE_ _
Double body format

- **Displays:** LCD segments.
- **Printer:** Receipts.

- **PLUs:** 5,000.
- **Direct PLUs:** 70x2 + 9x2*.
- **Vendors:** 10.
- **Power:** Mains.
- **Capacity / Accuracy:** 6 kg / 2 g - 15 kg / 5 g.

* Using the Shift key and those of Vendor.

M-520 B DB

Ref.: 7M211D2LGE_ _
Double body format with internal battery

- **Displays:** LCD segments.
- **Printer:** Receipts.
- **PLUs:** 5,000.
- **Direct PLUs:** 90x2 + 9x2*.
- **Vendors:** 10.
- **Power:** Mains / Battery.
- **Capacity / Accuracy:** 6 kg / 2 g - 15 kg / 5 g.

* Using the Shift key and those of Vendor.

M-515 F

Ref.: 7M151P2LGE_ _
Flat format

- **Displays:** LCD segments.
- **Printer:** Labels (or Receipts).
- **PLUs:** 2,000.
- **Direct PLUs:** 45x2 + 4x2*.
- **Vendors:** 5.
- **Power:** Mains.
- **Capacity / Accuracy:** 6 kg / 2 g - 15 kg / 5 g.

* Using the Shift key and those of Vendor.

M-525 F

Ref.: 7M251P2LGE_ _
Flat format

- **Displays:** LCD segments.
- **Printer:** Labels (or Receipts).

- **PLUs:** 5,000.
- **Direct PLUs:** 40x2 + 9x2*.
- **Vendors:** 10.
- **Power:** Mains.
- **Capacity / Accuracy:** 6 kg / 2 g - 15 kg / 5 g.

* Using the Shift key and those of Vendor.

M-515 P

Ref.: 7M151T2LGE_ _
Pole format

- **Displays:** LCD segments.
- **Printer:** Labels (or Receipts).
- **PLUs:** 2,000.
- **Direct PLUs:** 45x2 + 4x2*.
- **Vendors:** 5.
- **Power:** Mains.
- **Capacity / Accuracy:** 6 kg / 2 g - 15 kg / 5 g.

* Using the Shift key and those of Vendor.

M-525 P

Ref.: 7M251T2LGE_ _
Pole format

- **Displays:** LCD segments.
- **Printer:** Labels (or Receipts).
- **PLUs:** 5,000.
- **Direct PLUs:** 40x2 + 9x2*.
- **Vendors:** 10.
- **Power:** Mains.
- **Capacity / Accuracy:** 6 kg / 2 g - 15 kg / 5 g.

* Using the Shift key and those of Vendor.

M-515 DB

Ref.: 7M151D2LGE_ _
Double body format

- **Displays:** LCD segments.
- **Printer:** Labels (or Receipts).

- **PLUs:** 2,000.
- **Direct PLUs:** 45x2 + 4x2*.
- **Vendors:** 5.
- **Power:** Mains.
- **Capacity / Accuracy:** 6 kg / 2 g - 15 kg / 5 g.

* Using the Shift key and those of Vendor.

M-525 DB

Ref.: 7M251D2LGE_ _
Double body format

- **Displays:** LCD segments.
- **Printer:** Labels (or Receipts).
- **PLUs:** 5,000.
- **Direct PLUs:** 70x2 + 9x2*.
- **Vendors:** 10.
- **Power:** Mains.
- **Capacity / Accuracy:** 6 kg / 2 g - 15 kg / 5 g.

* Using the Shift key and those of Vendor.

OPTIONS

OPTION	CHARACTERISTICS	REF.
Capacity 15 kg / 5 g - 30 kg / 10 g	Multirange (3,000 divisions).	...F_ _ (*)
Capacity 15 kg / 5 g	Monorange (3,000 divisions).	...N_ _ (*)
Capacity 30 kg / 10 g	Monorange (3,000 divisions).	...Y_ _ (*)
Capacity 12 kg / 2 g	Monorange (6,000 divisions).	...V_ _ (*)

OPTION	CHARACTERISTICS	REF.
Capacity 30 kg / 5 g	Monorange (6,000 divisions).	...P_ _ (*)
Graphic display (W134 x H41 mm)	LCD matrix graphic display for buyer and vendor.	Contact us
Linerless	Label or receipt on continuous adhesive paper without supporting paper (in label printer for M-525).	Contact us
Wi-Fi	Wireless communications (IEEE 802.11n).	Contact us
Anti-blackout	Anti-blackout internal battery 24 V + external battery connector 24 V.	Contact us
Built-in scanner in scale	1D and 2D barcodes. Only for double body format.	Consult us
DFS Software	Scale configuration, receipt of sales data for processing with other IT applications, data backup (LBS), and labels and receipts graphic design. (See section on software).	7340F1U1 / 7340FNU1 / 7340D1U1 / 7340DNU1
RMS Software	Scale configuration, receipt of sales data for processing with other IT applications and data backup (LBS). (See section on software).	73400000 / 7340R1U1 / 7340RNU1
DLD Software	Labels and receipts graphic design. (See section on software).	7340L0U1 / 7340L1U1 / 7340LNU1
Technical DWS	Dibal Web Server software for the remote configuration of the scale. (See section on software).	7340W101
Full DWS	Dibal Web Server software for the remote configuration of the scale and the processing of the information generated. (See section on software).	7340WN01

OPTION	CHARACTERISTICS	REF.
Metrological verification (M)	According to EU weighing directives. (See section on equipment metrological verification).	Contact us
(*)	The scale references with this capacity are obtained by replacing the last characters of the reference for the standard scale with the indicated ending.	

ACCESSORIES

SMALL ITALIAN PLATE

L357 x W235 x H55 mm.

LARGE ITALIAN PLATE

L407 x W284 x H60 mm.

INTERCONNECTION SWITCH

For M-510 B and M-520 B scales with rechargeable internal battery.

BATTERY FOR THE SWITCH

Power battery for the BHN99

BAR CODE SCANNER

Includes connection cable to

ADAPTER FOR RECEIPT

interconnection switch.

the scale (for models M-520, M-520 B and M-525).

PRINTING IN LABEL PRINTER

Required for standard size receipt rolls.

T. (+34) 94 452 15 10

E. dibal@dibal.com

Astintze, 26

48160 Derio (Vizcaya) Spain

T. (+34) 94 452 15 10

E. dibal@dibal.com