User Guide







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PART 1 – General characteristics

EQUIPMENT DESCRIPTION

- 1. Display
- 2. Keyboard
- 3. Printer
- 4. Switch
- 5. Connections



WEIGHT INDICATOR DESCRIPTION

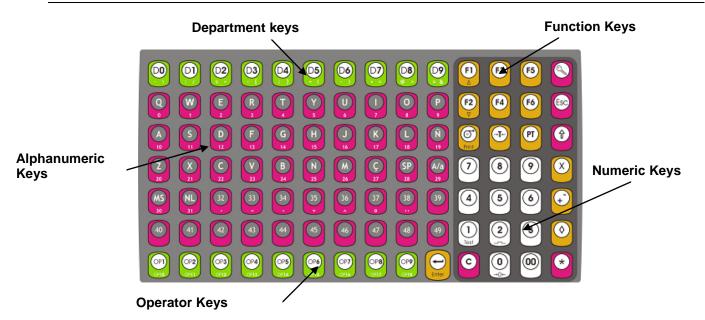
The indicator BM300 TOP PESCAM it is equipped with a Graphic Display of high resolution. Beyond the indicator of weight and of the texts of description, in the Indicator several icons of functions appear.

In the following chart are indicated the functions of each one of them.

ICON	FUNCTION	DESCRIPTION
NET	Net Weight	The weight indicated is the net Weight
BRT	Gross Weight	The weight indicated is the gross Weight
TAR	Tare	The weight indicated is the Tare
- M -	Memory	This vehicle carried out an operation of weighing in
→ 0 ←	Zero	Zero indicator
-Min-	Minimum	



KEYBOARD DESCRIPTION



Кеу	Description	Function	Key	Description	Function
	Key	Allows to enter in programming mode	Esc	Escape	leave of the programming mode/ Cancel operation
PRINT	Print	Pull out the printer paper	*	Enter/ Total	Print / complete a transaction
	Shift	allows to use the double function keys	+	Plus/Minus	Modify the value of the parameters in the programming mode
•••	Tare	without function	\bigcirc	Subtotal	Consult a transaction
PT	Stored Tare	without function	×	Multiplication	Not used
C	Clear	Modify/Clear the values of the parameters in the programming mode / cancel an operation in the weighing mode	0	Auto-Zero	Double function key (numerical Key Zero, and with the key Shift resumes the value of zero)



FUNCTION KEYS

Key	Function
Ē	Force the passage to the «Introduce vehicle Registration» mode / Walk through the programming menu
2	In weight mode, define the transaction type (OUT, IN or FREE) / In programming mode, Walk through the parameters menu
ß	Change the Stored Tare
(F4)	Store a Vehicle Registration.
F	without function
F	enter a manual weight
Enter	"ENTER" Confirmation Key



PART 2 – Weighting Operations

NORMAL WEIGHT

The equipment BM300TOP FISH was developed with the object of carry out industrial weighing of vehicles with weighbridge platforms.

The equipment presents an initial state "Wait Truck" whenever the platform is found empty, awaiting the presence of a vehicle for give beginning to the trial of weighing.

It is possible configure a Message Weight value (see menu 4112 Weight Msgs). Starting from a state "Wait Truck", when the equipment detects a weight over the "Weight of Message", passes automatically for the state "Introduce Registration", being able to the trial of weighing be initiated.

The process of weighing is composed normally for two weighing, where in one of them is registered the Tare (weight of the empty truck) and in another one is registered the Gross Weight (the weight of the truck loaded with the product). The difference between these two weights represents the net weight, the real weight of the product.

The equipment is going to differentiate the Kind of Movement that is going to be performed; this can be of Entrance, Exit or Free. The kind of movement is defined by the movement of stock that the product is going to carry out, so the product Enters, Leave or not affect the stock. The selection of the kind of Movement carries out with the key F2.

We be able to associate to a movement an or more articles, depending on the number of weighing carried out. These articles will be printed in the ticket with his respective net weight.

The equipment BM300TOP PESCAM allow the register of 2000 articles, being able to 500 of them to be associated the direct keys (PLU), distributed by 10 departments. It is possible set any product introducing his direct code through the numerical keyboard.

The Product should be introduced at an opportune moment during the process of weighing. According the kind of movement carried out, the product always should be inserted in the weighing in that record the Gross weight. For a movement of entrance the article is introduced in the first weighing whereas for a movement of exit should be introduced in the second weighing.

OUT MOUVEMENT

Indicates that there is a product Exit movement on the stock. (By example when a client comes with an empty truck carry the product). In that case to first weighing registers the value of the tare and to second weighing registers the value of the Gross Weight. The operating for the achievement of the first weighing is the following:

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The truck enters empty in the weighbridge for carry out the first weighing where will be registered the value of the Tare

The equipment detects a weight over the Message Weight, change to mode "Introduction of Registration". The first weighing Begins.

Introduce the registration and pulsate the key ENTER.

If the registration does not exist in memory the equipment permits the possibility of register it. To make the register must be utilized the key F4. To carry out the weighing without memorize pulsate the key ENTER.

For it carry out the weighing pulsate the key ENTER should hear a continuous and long whistle. It will be visible in the column right the indication TAR, beside the weight registered, indicating that weight is a Tare.

After the first weighing (Tare), the truck can leave the Bascule-Bridge for carry the product. It is possible print a ticket whit the key diamond (<>) followed by the key asterisk (*). After it carried out the weighing the equipment block the possibility of make a new operation while be not verified a lower weight to the minimum weight, this situation is indicated through the label -M, visible in the column right of the display.

The operating for the achievement of the second weighing is the following:

The truck enters loaded in the Bascule-Bridge for carry out to second weighing where will be registered the value of the Gross weight

The equipment detects a weight over the Message Weight, change to mode "Introduction of Registration".

The second weighing Begins.

Introduce the registration and pulsate the key ENTER.

Select the product. The utilization of products in the trial of weighing is optional. For the introduction of the product can be utilized the quick keys or through the insertion of his code with the numerical keys. For it carry out the weighing pulsate the key ENTER. It should hear a continuous and long whistle. It will be visible in the column right the indication NET beside the net weight.

If do not will carry out more weighing, print the ticket. For it carry out news weighing, remove the truck of the weighbridge.

$0{ m kg}$	₩ >0<
	Ukg





M: AA-11-22

pesar ENTER

N·OO



Op 01	DO	17280kg ⊠

<F2>

17280kg

SAID 47000 has see

mat.F1

M: AA-11-22	SAID	17280 kg	TAR
N:01 imprimir *	mat .F1	0 kg	NET
	mat .ri	17280kg	-111-







M: AA-11-22 SAID	17280 kg	TAR
N:01	4380 kg	NET
imprimir * mat .F1		
Op 01 💵 <01> AÇO	2166 0kg	



M: AA-11-22 SAID	17280 kg TAR
N:02	4380 kg NET 21660 kg ^{-M-}
imprimir * mat .F1	
Op 01 ₪0 <01> AÇO	21660kg 🗠





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After achievement of the weighing, it is possible to print a ticket of weighing finalizing the Movement. The operating for the impression of the ticket of weighing is to following:

For it initiate the trial of impression pulsate the key ASTERISK.

Confirm the impression with the key ASTERISK, or cancel with the key ESC.

It is possible associate a client previously inserted in the system, for that introduce the code of the client and pulsate in the key ASTERISK. To continue without client leave the codes like zero and pulsate ENTER or pulse the key ESC.

If the field Observations (menu 4111) be active, the equipment permits the introduction of a text it to be inserted in the ticket. For it print without observations pulse the key ESC.

It will be printed a ticket of weighing. To repeat the trial for print a copy of the ticket of weighing.

*	M: AA-11-22 SAID N:02 imprimir * mat .F1 Op 01 DO <01> Aço	17280 kg 4380 kg 21660 kg	
*	M: AA-11-22 SAID N:02 imp.TOTAL sim * não ESC		TAR NET -M-
*	CLIENTE :000 sim * não ESC		TAR NET -M-

OBS:				TAR
<		>	N0 0.2	NET -M-
OPERADOR	0000		N 02	

TICKET PRINTED

MOVIMENT IN

Indicate that a product Entrance movement in the stock exists (by example when a supplier comes with a full truck discharge product). In that case, to first weighing registers the value of the Gross Weight and to second weighing registers the value of the Tare.

The Truck enters loaded in the weighbridge for carry out to first weighing, where will be registered the value of the Gross weight

The equipment detects a weight over the Message Weight, change to mode "Introduction of Registration". The first weighing Begins.

Introduce the registration and pulse the key ENTER.

If the registration does not exist on the memory, the equipment permits the possibility of register it. To make the register, must be utilized the key F4. To carry out the weighing without memorize pulsate the key ENTER.

Press the key F2 for select the kind of movement IN.

Select the product. The utilization of products in the trial of weighing is optional. For the introduction of the product, it can be utilized the quick keys or through the insertion of his code with the numerical keys.





M: AA-11-22 N:00	ENTR <f2></f2>		
pesar ENTER	mat.F1		
Op 01 💵		236 00 kg	



M: AA-11-22 N:00 pesar ENTER		<f2> mat.F1</f2>	
	Op 01 💵		23600 kg ⊠



M: AA-11-22 N:00	ENTR <f2></f2>		
pesar ENTER	mat.F1		
Op 01 III <01>	AÇO	23600 kg	

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M: AA-11-22

imprimir *

Op 01 💵 <01> AÇO

mat .F1

N:01

23600 kg BR

23600 kg

0 kg NET

To carry out the weighing pulse the key ENTER. It should hear a continuous and long whistle. It will be visible in the column right the indication BRT, beside the weight absorbed (registered), indicating that that weight is a Gross weight.

After the first weighing (Tare), the truck can leave the weighbridge for carry the product. It is possible to print a ticket whit the key diamond (<>) followed by the key asterisk (*).

After it carried out the weighing the equipment block the possibility of make a new operation while be not verified a lower weight to the minimum weight, this situation is indicated through the label -M-, visible in the column right of the display.

The operating for the achievement of the second weighing is to following:

The truck enters empty in the weighbridge for carry out the first weighing where will be registered the value of the Tare.

The equipment detects a weight over the Message Weight, change to mode "Introduction of Registration".

The second weighing Begins.

Introduce the registration and pulsate the key ENTER.

For it carry out the weighing pulsate the key ENTER. It should hear a continuous and long whistle. It will be visible in the column right the indication NET beside the net weight.

If do not will carry out more weighing, print the ticket. For it carry out news weighs, remove the truck of the weighbridge.

After achievement of the weighing, it is possible to print a ticket of weighing finalizing the Movement. The operating for the impression of the ticket of weighing is the following:

For it initiate the trial of impression pulsate the key ASTERISK.

Confirm the impression with the key ASTERISK, or cancel with the key ESC.

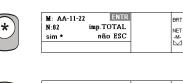
It is possible associate a Supplier previously inserted in the system. For that, introduce the code of the client and pulsate in the key ASTERISK. To continue without client, leave the codes like zero and pulse ENTER or pulse the key ESC.

If the field Observations (menu 4111) be activated, the equipment permits the introduction of a text to be inserted in the ticket. To print without observations, pulse the key ESC.

It will be printed a ticket of weighing. To repeat the trial for print a copy of the ticket of weighing.

M: AA-11-22 ENTR 23600 kg BR1 N:01 6320 kg NE pesar ENTER mat F1 17280kg Op 01 💵 <01> AÇO

M: AA-11-22	ENTR	23600 kg	BR
N:02		6320 kg	
imprimir *	mat .F1		-N
Op 01 II <01>	AÇO	17280kg	



mat .F1

23600 kg BR1

6320 kg NET

17280kg

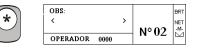
M: AA-11-22

imprimir *

Op 01 III <01> AÇO

N:02





TICKET PRINTED



Espera Camião



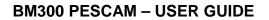
*





COM.LIGTER			
Op 01	DO		17280 kg

ENTER	
I-22 ENTR	23600 k
	6320 k
* mat .F1	
<01> AÇO	17280 k





FREE MOVE

Indicate that it will be making a free weigh. It means that it will not change the values of the stock. To carry out a free weighing, follow the appropriate paces on the IN Movement or in the OUT Movement.

OPERATIONS OF WEIGHING WITH FAULT PROGRAMMED

The equipment BM300TOP PESCAM allows the utilization of registrations in memory associate a programmed Tare. The tare programmed is utilized by movements OUT. It is possible to modify the tare on the memory after the introduction of the registration during the operation of weighing, for such utilize the key F3. It will be presented the message "M: Tare Truck?" With the key ASTERISK will be memorized the current as new weight value of tare in memory for the current registration.





PART 3 – Programming

PROGRAMMING ACCESS

In programming mode we can introduce all need data: trucks, articles, companies, etc.

- 1. To programming mode we should pulse the Key for 3 seconds.
- Select one of the menus with the numerical keyboard we will accede directly to the menu selected, or use the key F1 and F2 for navigate between inside the menus, Asterisk pulsate for enter.
- 3. After it accede to the menus can enter in sub-menus or in the parameters, selecting it with the keys F1 and F2 and pulsating Asterisk for confirm the choice.
- 4. For go back to the menus use the key Escape;
- 5. For record and leave to pulsate Asterisk and Escape.

PESCAM (1)

To enter the programming pulse the key "Key" during 3 seconds. Will appear on the display: "KEY 1 WEIGHS-TRUCKS", pressing of succession the key Asterisk (*).

TRUCKS (11)

Pressing once again the key 1, or Asterisk (*), accesss itself to the programming of the Registers, Tare and Maximum. Introduce a registration up to the maximum one of 12 characters, and advance with the key asterisk (*)

In this moment is possible the manual introduction, through the numerical keyboard, of a Tare that stayed associated to this registration. Through the keys F1 or F2 we open the maximum weight programming field admitted for this registration. We introduce a value through the numerical keyboard confirming with the key asterisk (*)

For resume the menu 1, pulse the key Escape.

ARTICLES (12)

The indicator BM300TOP PESCAM have a capable memory of store 2000 articles, with all of the necessary data as code, name, direct key, etc.

Pressing the key 2 accesss itself to the programming of Articles. Introduce a code of article, with the numerical keyboard to 6 digits.

It opens automatically the field for fill, with the alphanumeric keyboard, the name of the product (to 24 characters) recording itself of succession with the key Asterisk (*). For leave pulse ESC.

Notice: With the key More/Less traverses itself the name of the article and with the keys F1 and F2 is possible program the remaining parameters of the article (ex. : TEC.- direct Key; DEPAR - Department).



Code

It is a 6-digit number that identifies the article. This number is different for each article programmed and can program itself since 000001 until 999999.

1. Introduce the code of the article with the numerical keyboard;

2. Pulse the key 'F1' to pass to the following field. If we have introduced the 6 digits from the field, the Indicator will pass immediately to the following field.

Name of the article

We are able to program on the maximum 24 characters.

Introduce the name with the alphanumeric keyboard

Be advised that:

For introduce a space we should pulsate the key '+ /- ';

For pass from capital letters for lower-case letters we should pulse the key '29'.

To pass for the following field, pulse the Key 'F1'.

Direct Key (PLU)

It is the direct key to that associates the article, of the way that when we will want to call the respective article we only need pulse a key.

- 1. Introduce the number of the key with the numerical keyboard.
- 2. Pulse the key 'F1' for pass to the following field.

Department

The indicator BM300TOP PESCAM arranges 10 departments (D0 to D9), that are ABLE to multiply the capacity of the direct keys for 10. Like this we be able to have the direct key n°12 (by example), in 10 departments each with a different article.

- 1. Introduce the number of the department, with the numerical keyboard;
- 2. Pulsate 'F1' to pass to the following field.

Notice: It is not necessary program all of the fields of the article, sufficiency program the code and the name.

It is not necessary introduce the zeros to the left one. Pulsating the key 'CLEAR' we be able to put out the facts that introduce.

COMPANY (13)

Pressing the key 3, access to the programming of Companies. Introduce the Number of the Company to 3 digits, through the numerical keyboard, and pulsate ENTER.

Write the Name of the Company, through the alphanumeric keyboard, to 24 characters. Press ESC for leave.



COMUNICATIONS (3)

The menu of communications permits carry out us the proof and the configuration of the same. For access to the communications we must:

- 1. Access to the menu of programming pulsating the key 'KEY' during three seconds;
- 2. Pulse the numerical key 3, for enter in the menu of communications.

CHECK COMUNICATIONS (31)

This option permits verify a net of Indicator inter connected - indicates itself the slaves are it communicate with the master.

- In the Indicator will appear the directions of the slaves represented by his number.
- When the number is blink the communication confirms-itself.
- Itself the number remain fixed there is not communication.

PROGRAMMNG OF DIRECTION (32)

In this menu we are able to configure the Indicator as the master or like slave.

By security, this menu the facts are blocked, so we are not able to modify them.

For be able to modify the facts we must:

• In The position 'MAST/SLA', press the key 'MULTIPLICATION' four times. Will show itself a "C" in the Indicator, indicating that already we be able to alter all of the facts.

Master/Slave (321)

Here select if the Indicator is a master or slave. If it is a slave we will associate him a direction of slave.

Select the direction with the numerical keyboard.

QUADRO DE DIRECÇÕES
00 - Master
01 – Slave 1
02 – Slave 2
03 – Slave 3
04 – Slave 4
05 – Slave 5
12 – Slave 12

Programming the Indicator as the slave, we will not be able to configure the remaining parameters, since alone have application for the communication with the computer.

Press 'F2' to pass to the following parameter

Computer direction (322)

Select the computer direction



Velocity (323)

Define the RS-232 communication velocity

VELOCITY

0 – 9600	5 – 500
1 – 4800	6 – 150
2 – 2400	7 – 110
3 – 1200	8 – 19200
4 – 600	

Notice (324)

The indicator can show a sing when exist communication with the computer.

Control times - T1, T2, T3, T4 (325-326-327-328)

Do not change these parameters

Bits Number (329)

- 0 8 bits
- 1 7 bits

COMPUTER COMMUNICATION (34)

Scale initiation (344)

This function reset and deletes all programmed data in the indicator.

• Press 5 times the 'TOTAL' key

COMMUNICATIONS RS-232 (35)

Allow connect the indicator to a computer through a RS-232 Interface.

Protocol (351)

Parameters of RS-232 communication.

3511 – Direction RS-232

We should select the direction of the indicator. This should be always even and in the interval of 00 to 30.

3512 – Velocity

Communication RS232 Velocity

3513 - 3515 – Times T1, T2, T3.

Do not change this parameter.



3516 – Bits Number

- 0 8 bits
- 1 7 bits

3517 - Parity

- 0 None
- 1 Even
- 2 Odd

SECTION CONFIGURATION (4)

This menu is going to configure the operation of the section (Master and Slaves)

SECTION PROGRAMMING (41)

In this menu we will configure the operating of the Indicator.

Work Mode (411)

4111 – Observations

This parameter permits activate the viewing of the field Observations in the weighing ticket. The options are:

0 – Deactivated

1 - Activated

4112 – Msg Weight

With this parameter we are able to define the Weight Message value. From the state "Wait Truck", when detected a weight over the Message Weight value, the equipment change to "Introduce Registration" mode.

The options are:

0 – Deactivated

n – Activated, n indicates the weight message value (by example, n = 400 kg)

4114 – Opening Drawer

Active the emission of an electric sign in the moment of the impression of the weighing ticket.

The options are:

0 – Deactivated

1 – Activated

4118 – Ticket Number

The options are:

- 0 Number of ticket is automatic
- 1 Number of ticket is manual
- 2 Like the option 1, but the ticket to the which will not give number, will give them automatically.



4119 – Code Digits

This item defines the number of digits of the code of the article that should be introduced for put to the article in way of utilization.

The options are:

0 –Introduce the 6 digits

1 - 5 - we Will Introduce the quantity programmed of digits

4110 – Automatic Weight

Active the automatic weight.

The options are:

0 – Deactivated

1 – Activated

Data to Computer (412)

4121 – Section Number

This is a 2 digits number that identify the section of the indicator.

4122 – Ticket

Activate the automatic sending of the ticket's to the computer

The options are:

0 - Deactivated

1 - Activated

4125 – Weight

Active the sending of data to the computer by the RS232 interface The options are:

0 - Deactivated

1 – Activated, send the actual weight

2 – Active the sending of the weighing ticket, permits to his impression in a printer external series, by example LX300+

Printers (413)

4134 – Ticket copy

Active the ticket copy function The options are: 0 – Deactivated 1 – Activated

Ticket information (414)

4141 – Tare in ticket

Active the option print tare in weight ticket. The options are:

0 – Deactivated

1 – Activated



4143 – Code in ticket

With this parameter we be able to select that be printed the article code in the ticket. The options are:

0 – Deactivated

1 – Activated

4144 – Operator in ticket

With this parameter we be able to select that be printed the operator code in the ticket. The options are:

0 – Deactivated

1 - Activated

4148 – Headers in ticket

With this parameter we be able to select that be printed the headers in the ticket. The options are:

0 – Deactivated

1 - Activated

4149 – Logo no ticket

With this parameter we be able to select that be printed the headers in the ticket Select the logo number (11 or 12)

4140 – Logo Position

This parameter select where be printed the logo in the ticket. The first value indicates about that line and the second indicates to its position:

- 0 Left
- 1 Center
- 2 Right

EAN (415)

In this menu we be able to configure the bar code (EAN - 13) for ticket, label and total of box and totals labels.

4151 – EAN in ticket

With this parameter we be able to select how be printed the EAN in the ticket. The options are:

0 – Print with positive amounts

- 1 Print with negative amounts
- 2 Don't print
- 3 Print with absolute amount value

4154 – Special EAN ticket

Select the special EAN.

The options are

- 0 EAN 13 standards (2AABBBBEEEEE);
- 1 EAN 13 especial (4411), with EAN per line;



2 – EAN – 13 standards (2AABBBBEEEEE), with EAN per line;
3 – EAN – Special (4411), with EAN per line.
4159 – Density Line

Select the density line value

The options are:

- 0 Don't print normal density
- 1 Print a line normal density
- 2 Don't print Double density
- 3 Print Double density

OPERATORS (42)

Select the active operator.

TEXT PROGRAMMING (43)

Program of the all field texts, except the articles texts

Headers (431)

Programming of the headers in the ticket

Fonts:

- **1** Normal (32 characters) [14 x 27]
- 2 Low double (16 characters) [14 x 27]
- 3 High double (32 characters) [14 x 27]
- 4 Double (16 characters) [14 x 27]
- 5 Normal (32 characters) [14 x 20]
- 6 Low double (16 characters) [14 x 20]
- 7 High double (32 characters) [14 x 20]
- $\mathbf{8}$ Double (16 characters) [14 x 20]

Departments (432)

Program of the name of the departments

DATA PROGRAMMING (44)

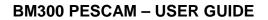
Program of the fields of the Bar Codes

EAN's (441)

Program of the EAN configuration



Must be selected the EAN format type in the item 416





4411 – Special EAN

Configuration of a bar code (example: 2AABBBBEEEEE)

PROGRAMMED CHARACTERS

- A Section number
- **B** Client/Ticket number
- C Article number
- **D** Operator number
- E Ticket amount
- F Amount signal
- **G** Number of operations
- H Total Weight
- I Tax tipe
- J Department
- 0 Control digit

4412 Programming EAN

Allow program 10 configuration bar code types that can be use in the articles.

CLOCK (46)

Define the Data/Time of the indicator.

CLEAN DADOS (47)

Allow realize a Total/Partial clean of the indicator data.

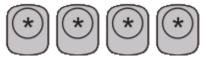
Total clean (471)

Delete all data in de indicator

Press 4 times the 'TOTAL' key.



Text files (472) Delete all text data in de indicator Press 4 times the 'TOTAL' key



Numeric data files (483) Delete all numeric data in de indicator Press 4 times the 'TOTAL' key

