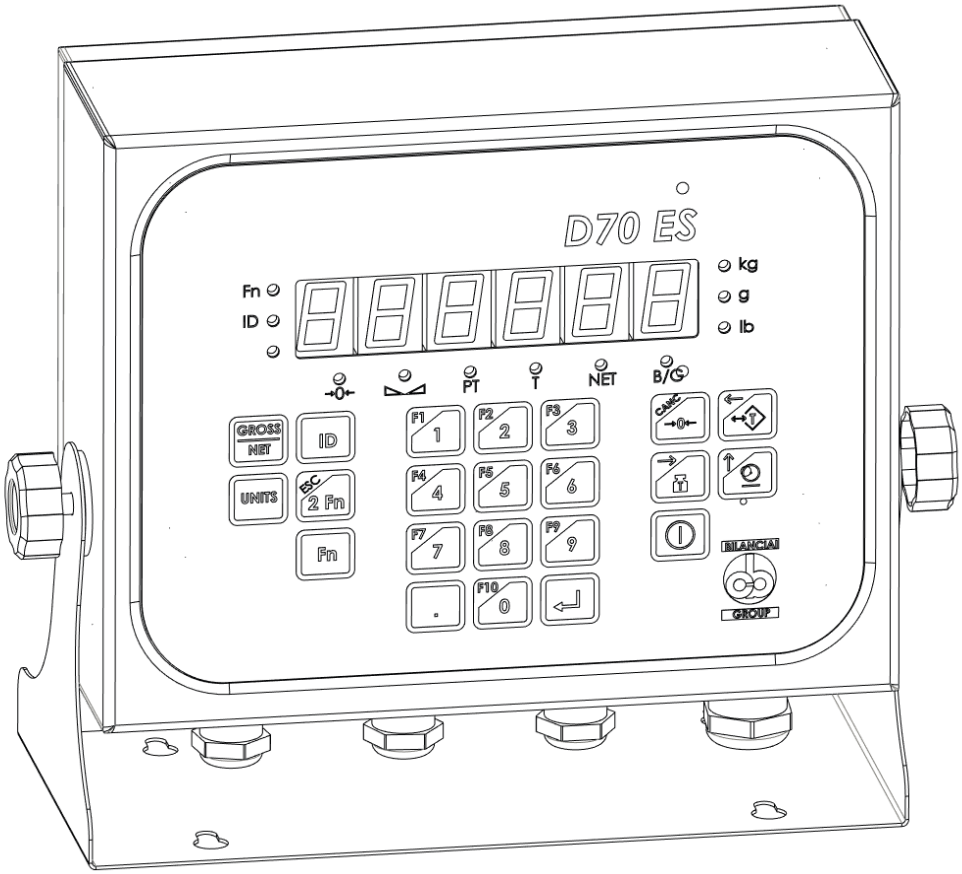


D70ES Terminal

CE

Operators manual

REV 3 Firmware v1.0.1.23	May 2023 EDITION

Table of Contents

1. GENERAL INFORMATION 5
1.1 Declaration of conformity 5
1.2 Introduction 5
1.3 Symbols 6
1.4 Description of the terminal 7
1.5 Technical Specifications 9
1.6 Overall dimensions and weight of terminal 10
1.7 Instructions for the disposal of electric and electronic waste 11
1.8 Instructions for requesting technical assistance 11
1.9 Warranty 11
2. SAFETY PRECAUTIONS 12
2.1 Prohibited use 12
2.2 Regulations 12
2.3 Instructions for use 12
3. COMMANDS, INDICATIONS, SWITCH ON AND OFF 13
3.1 Display of the D70es 13
3.2 Description of the keys 15
3.3 On-off key of the terminal 17
3.3.1 Auto shutdown 17
4. USING THE TERMINAL 18
4.1 General information 18
4.2 Zeroing the scale 19

4.3 Entering an Auto Tare 19
4.4 Tare display 19
4.5 Tare entered via keyboard 19
4.6 Tare deletion 19
4.7 Gross/Net mode change 19
4.8 Print/transmission of weighing data 20
4.9 Entering numerical data (Numeric Keypad Entry) 20
4.10 Scale operator settings 20
4.11 Peak & Hold mode operation 24
4.11.1 Peak & Hold Acquisition 24
4.12 Double weighing operation mode (input weight output weight) 25
4.12.1 Double weighing Acquisition 25
4.12.2 Double weighing Acquisition Prompt for ID Number 26
4.12.3 Deleting unused RcD/ID codes 26
4.12.4 Double weighing Acquisition Keyed Tare Entry 27
4.12.5 Print Gross weight with Time and Date in Double Weighing Mode 27
4.12.6 Display and print inbound truck ID list 27
5. ERROR MESSAGES 28
6. CODING OF ERROR MESSAGES 30

1. GENERAL INFORMATION

1.1 Declaration of conformity

See QUICK START manual.

1.2 Introduction

- ✔ The purpose of this manual is to instruct the operator on the PRECAUTIONS and essential criteria for the installation, safe use and methodical maintenance of the weighing system, using texts and figures supporting the explanations.
- ✔ Always keep this manual at hand. Always follow the instructions found in this document!
- ✔ The operating safety of the system is the operator's responsibility, who must have an in-depth knowledge of it.
- ✔ The user is responsible for making sure that installation complies with relevant standards in force.
- ✔ The appliance must only be installed by authorized BTEK Distributor personnel after having read and understood this manual.
- ✔ Contact the closest authorized B-TEK dealer when you encounter any fault. See Section 10 for troubleshooting tips.
- ✔ The user or unauthorised personnel are prohibited from attempting any disassembly, modifications or tampering with this system; this would make the warranty immediately null and void and the Manufacturer would not be held liable for any personal harm or property damage it may have caused.
- ✔ Alterations or removal of the data on the terminal's nameplates, seals or legalisation stamps is also prohibited; therefore, make sure that all the nameplates are in place and legible.
- ✔ The Manufacturer will not be held liable for damage resulting from careless handling of the terminal.
- ✔ The following information and illustrations are updated to the date of issue.
- ✔ The Manufacturer is committed to constantly improving its products, thus possibly modifying some components of the system.
- ✔ All the technical information contained in this manual is the exclusive property of the Manufacturer and must be considered as being of a reserved nature.
- ✔ The reproduction and disclosure, even partial, of this manual on paper, digital support or on the WEB without written consent from the B-TEK Scales LLC is prohibited.
- ✔ Use of this manual for purposes other than those strictly linked to the installation, use and maintenance of the terminal is also prohibited.
- ✔ Some illustrations could represent the weighing system without safety guards in order to more clearly and effectively detail operation, adjustments etc. Do not use the system in these conditions. Only remove these safety guards for the time strictly necessary to perform the required repairs or maintenance, and then restore them immediately.

1.3 Symbols

The following symbols are used in the manual to call the attention to the different danger levels in the "Use and maintenance" of the instrument.

 **DANGER** 

Information or procedure which, if not carried out exactly, can cause death or severe personal harm.

 **ATTENTION** 

Information or procedure which, if not carried out exactly, could cause minor personal injuries or damage to the instrument.

 **WARNING** 

Information or procedure advising the operator on the ideal use of the system to extend its lifetime, to avoid damage or loss of programming and to optimise work in compliance with metric standards.

1.4 Description of the terminal

The D70ES model digital weight indicator performs extremely accurate and reliable weighing operations.

The design of the D70ES is for use in the industrial and commercial weighing industry. Its configuration enables easy set up with many types of weighing platforms.

Below are some of the features that distinguish the terminal:

- ✔ LED display, 0,8 inches, 20 mm
- ✔ 1 x Serial Port RS232, 1 x RS232/RS422/RS485/Current loop
- ✔ Internal power supply 110-240 VAC 50-60 Hz, 12VDC external power input, 3Amp
- ✔ FIR advanced digital filter settings
- ✔ Stainless steel enclosure
- ✔ Membrane numeric keypad + 9 function keys
- ✔ Clock, calendar / capacitive back up
- ✔ Control system for configuration and calibration changes
- ✔ Max 12 analog cells at 350 ohm (or 24 of 700 ohm) : 5V Excitation
- ✔ Secondary unit of measurement
- ✔ Approvals: OIML 4000 div (0,4 uV/div), R76/2006-NL1-17.33
  NTEP 10.000 div (0,25 uV/div), NTEP CC 17-010
  Measurement Canada 10,000 div. MC: AM-6054C,
- ✔ Single-range weighing, double weighing operation (weighbridge, input/output)
- ✔ Single weighing
- ✔ Maximum weight value display (Peak Hold)
- ✔ Programmable print formats
- ✔ Self-assigned RCD manual ID, Truck I/O (memory recall)
- ✔ Drivers supported for STB-Q3, TM295, STB-80, LP55, PLUS printers. Custom print strings can be created for other RS232 Printers.
- ✔ Protection rate IP66 / NEMA 4X

AVAILABLE OPTIONS:

- ✔ Analog output 16 bit resolution (10,000 counts), 0-10 VDC, 0-20mA, 4-20 mA
- ✔ TCP/IP Ethernet port (10/100Mbps)
- ✔ 4 inputs / 4 outputs opto-isolated 24 VDC 200mA
- ✔ MPP Memory (Software Enabled)

The options can be simultaneously installed

Replacement Parts and Options Item Numbers

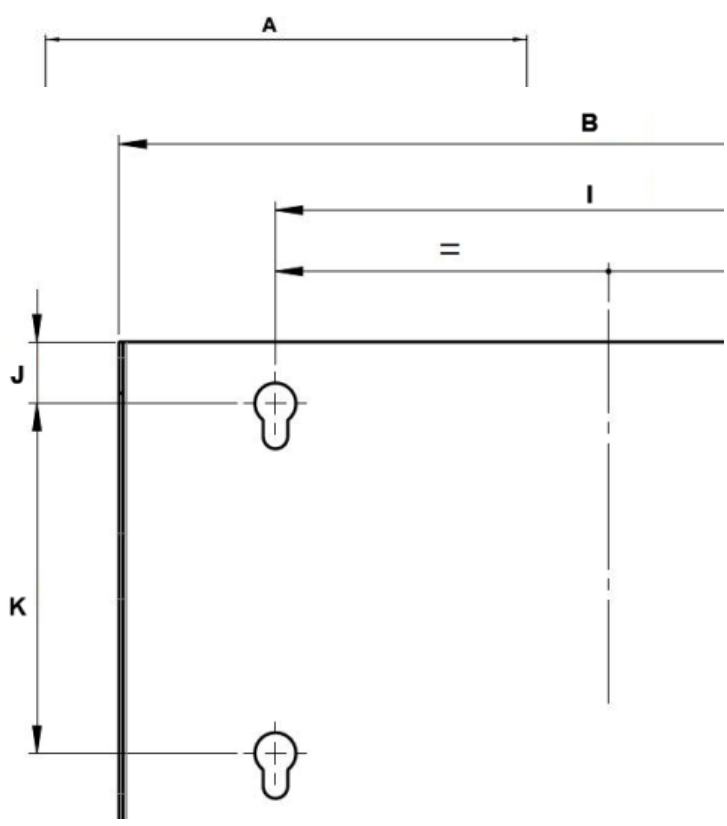
Part Numbers	Description	Bilanciai Part number
899-100117	**D70ES INTERNAL POWER SUPPLY**	
899-100173	**D70ES MAIN BOARD**	405370
899-100174	**D70ES DISPLAY BOARD**	404370
899-100178	**D70ES FRONT COVER W/KEYPAD**	
899-100175	**D70ES ANALOG OUT EXP CARD 0-10V / 4-20mA**	405410
899-100176	**D70ES 4 IN/4 OUT EXPAN CARD**	405391
899-100177	**D70ES ETHERNET 10/100 Mbps EXPANSION CARD**	405400

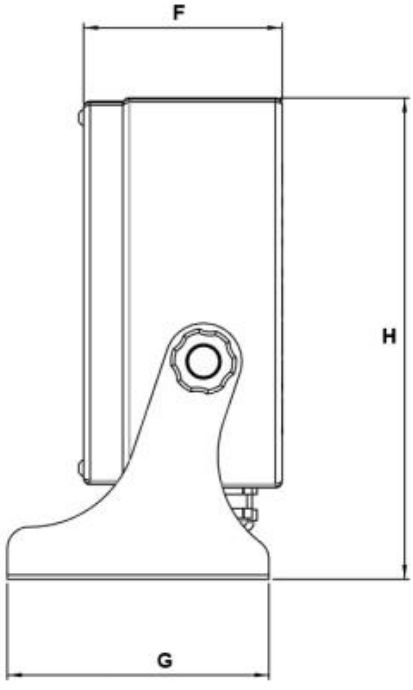
1.5 Technical Specifications

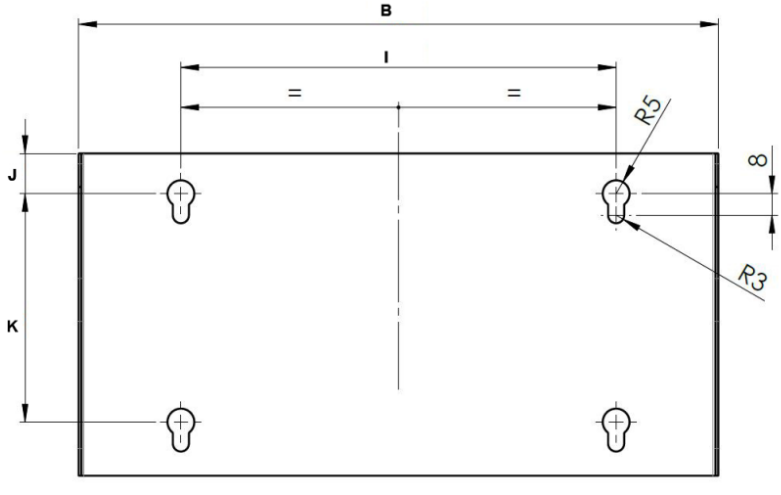
Power supply	110-240 VAC 50/60 Hz internal
Direct	12 VDC/ 3 A (Min. 11 V - Max. 15 V)
Maximum absorbed power	15 W
Connectable cells	up to 12 350Ω analog cells or to 24 700Ω analog cells
Minimum load cells impedance	29Ω
Excitation	4.5 - 5 VDC
Internal resolution	800000 dots @ 25 conv/sec
Resolution in type-approved version	maximum 10000 divisions
Maximum input signal	15 mV
Minimum sensitivity	0.4 µV/division
Full scale stability	< 5ppm/°C
Zero stability	< 5ppm/°C
Compensated temperature range	(-10; +40) °C
Operation temperature range	(-10; +40) °C
Protection degree	IP66 / Nema 4X
Maximum work humidity value	85% @ 40°C

1.6 Overall dimensions and weight of terminal

Weight: 1.3 kg (2.9 lb)







	Inches	MM
A	9”	230
B	9.4”	238
C	10.7”	272
D	7”	178
E	7.8”	198
F	3.6”	91
G	4.75”	120
H	8.75”	221
I	6.4”	162
J	.6”	15
K	3.5”	85

1.7 Instructions for the disposal of electric and electronic waste

This symbol on the purchased weighing instrument indicates that:

✔ this electric or electronic appliance cannot be disposed of as municipal solid waste;
✔ it must be disposed of separately;
✔ it can be returned to the distributor when purchasing a new one;
✔ improper use or disposal of this appliance can cause environmental pollution or damage to health;
✔ failure to comply with the indications above is sanctioned according to standards in force.

In particular:
✔ the outer enclosure and the mechanical components are made up of plastic and/or metal materials;
✔ there are printed circuit boards with electronic components inside the enclosure;
✔ there is a Ni-Cd or Li battery on the CPU board;
✔ the electrical connections are installed with insulated copper conductors;

 ATTENTION 

Dispose of this appliance via separate waste collection either handing it over to the distributor or to separate waste collection center.

1.8 Instructions for requesting technical assistance

In the event of an operating fault or failure requiring a technician, contact your closest authorized B-TEK scale dealer or directly contact the manufacturer. To speed up problem solving, communicate the serial number of the instrument found on the top of the enclosure. Also communicate the features of the scale system in which the terminal is installed.

1.9 Warranty

The clauses of the warranty are specified in the sales contract.

2. SAFETY PRECAUTIONS

2.1 Prohibited use

The D70es is a weighing system and has been designed and manufactured as such. It is intended primarily for weighing goods.

- ✔ It is prohibited to use the terminal without taking the necessary precautions for its safe operation.
- ✔ It is prohibited to use the terminal in a potentially explosive atmosphere or in places with a risk of fire.

Any other use is only allowed if expressly authorised by the Manufacturer.

2.2 Regulations

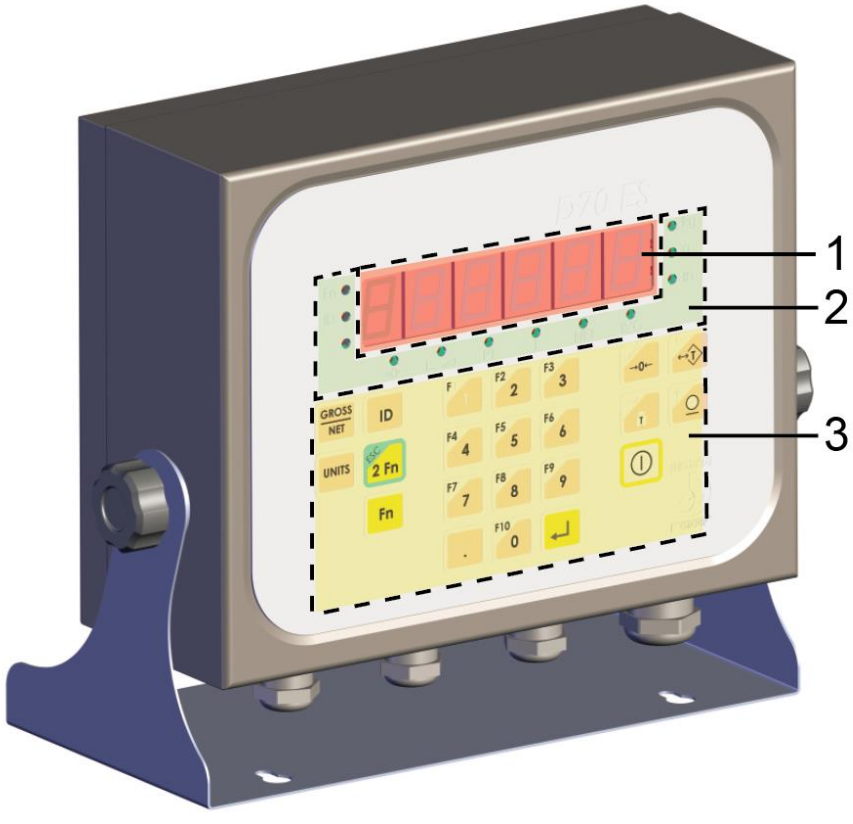
The operating conditions of the electronic terminal for weighing instruments are regulated by the standards in force in the country of use. Any use which does not comply with these standards is prohibited.

2.3 Instructions for use

- ✔ While using the D70es strictly follow the instructions in this manual.
- ✔ Should there be differences between the contents of this manual and your device, ask your Dealer or the Manufacturer's After-Sales Assistance for clarifications.
- ✔ Carefully follow the instructions provided on the warning and danger plates applied to the terminal.
- ✔ Make sure that the terminal has all the covers and protective casings. Check the integrity of the cables and their connection.
- ✔ Check that the terminal is always plugged into a socket with an efficient earth conductor, making sure that the line complies with standards in force. Ensure that there is no potential difference between earth and neutral.
- ✔ If the terminal needs to be connected to other devices such as computers, disconnect them from the mains before making the connections.
- ✔ Maintenance and/or repairs must only be carried out by authorised personnel.
- ✔ Always unplug the terminal and wait a few minutes before accessing its internal parts.

3. COMMANDS, INDICATIONS, SWITCH ON AND OFF

3.1 Display of the D70es



Key

1. Terminal display
2. Weighing symbols
3. Keyboard

Figure 3.1 - Front of the terminal

The indications relating to the operations performed by the indicator are presented in the most extended form possible, while universally adopted symbols are used for the weight data.

The following is a list of the <u>weighing symbols</u> with their meaning:

→0← ***"Center zero" signal***

Indicates that the weight detected by the platform is near zero, ranging within -1/4 + 1/4 of the division.

◺◿ ***Stable weight signal***

Indicates that the weight displayed is stable and can be printed and/or transmitted.

PT ***Tare entered by keyboard signal***

Indicates acquisition of the tare value typed from the keyboard.

T ***Tare symbol***

Indicates the presence of a tare stored by acquisition.

NET ***Net weight signal***

When the indication is on it means that there is a tare stored by acquisition.

If the **PT** indication is also on at the same time, it means that there is a tare entered from the keyboard.

B/G ***Gross weight signal***

When the indicator is on it means that a tare has been entered.

kg, g, lb ***Unit of measurement of the displayed weight***

If the indication flashes, the weight is inside the minimum weighing field.

Fn Indicates the button press of the Fn key. The numerical keys operate in second function according to setting in FN parameters.

ID Indicates the entering of the ID value of the data recall (RCD)

3.2 Description of the keys

Refer to Figure 4.1 reference 1:



Switching from gross weight mode to net weight mode



Entering of the ID value of the data recall (RCD)



If enabled, it changes unit of measurement between primary and secondary



Additional functions selection key

Allows displaying/selecting the terminal features or data



Selects the secondary function of the numerical keys

a. Selecting a shortcut function
   i. press Fn key to select/unselect short cut key. The annunciator led Fn is on when selected.
   ii. press any numeric key to execute short cut operation
b. Setting a shortcut function
   i. select through 2°F key data to be selected
   ii. press and hold Fn key until PROGFN appear on display
   iii. SEL K.n is displayed, press selected numeric key then enter
c. Deleting a shortcut function
   i. follow setting sequence until SEL K.n in on display
   ii. press zero key, appear CLR K.n
   iii. press numeric key to delete



Zero weight reset key

Pressing this key resets the weight indication to zero only if the following conditions are met:
✔ the weight value must be within the -1% ÷ +3% range of the capacity for terminals set to legal for trade and ± 50% of the capacity of non-legal for trade terminals;
✔ the weight must be stable;
✔ no tare must be inserted.



Tare insertion and deletion key

Pressing this key allows you to acquire the weight displayed on the weighing platform as the tare value only if the following conditions are met:

✔ the weight must be stable;
✔ the weight must have a positive value;
✔ the weight must not exceed the maximum capacity.

Pressing again deletes the acquired tare.



Tare display key

Pressing this key displays the set tare. And allows a keyed tare to be entered via numeric keypad followed by enter.



Print and/or transmission start key

Pressing this key allows printing the weighing data and/or serial transmission of a data string on the configured port.



On-off key

Pressing this key switches the terminal off or on.



"Enter" or confirmation key

Pressing this key confirms the operation performed.

1-2-3..0-, ***Numerical keypad***



WARNING



The key function may change while using the terminal. Instructions will be given throughout this manual.

3.3 On-off key of the terminal

DANGER

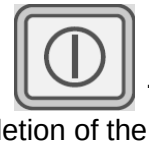
Before switching on the terminal, check:

✔ *correspondence of the electric frequency and voltage with those required by the terminal;*

✔ *the presence and integrity of the protective casings;*

✔ *the presence of warning and danger plates.*

If not, notify maintenance personnel or directly notify our after sales service.

✔ Press the key  .

✔ Wait for completion of the initial check test (lamp-test) of the correct operation of all display segments.

✔ Press the key again to switch the terminal off.

WARNING

The on-off key  *can be disabled during installation. In this case, the customer must provide for the insertion of an accessible disconnecting switch. This feature is used if the terminal is installed in places that are not easily accessible (e.g. at 3 m of height). In this case, the terminal is always on and to turn it off you must use the disconnect switch.*

3.3.1 Auto shutdown

The terminal can be configured in the *AUTOMATIC SWITCH-OFF* mode to optimize power consumptions. If the stable weight condition remains for 5 minutes, the terminal switches off automatically.

A minute before switching off, the display begins to blink to inform the operator about the imminent switch-off.

To enable this function, go to parameter **AUT.OFF**, select value ***YES,*** and follow the instructions given in (*section 8.5.1) of this Manual*.

4. USING THE TERMINAL

4.1 General information

The keys , , , , , described in *par. 5.2* allow browsing the menus, sub-menus and parameters.
In particular

 it is used to:

- ✔ enter the additional data, submenus and parameters;
- ✔ store the value of the displayed parameter;
- ✔ answer the questions posed by the terminal affirmatively ("*save?*" "*sure?*").

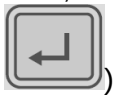
 it is used to:

- ✔ advance in the additional data, submenus and parameters;
- ✔ advance in the multiple choice parameters values;
- ✔ answer the questions posed by the terminal negatively ("*save?*").

 it is used to:

- ✔ exit by one level in the submenus and parameters

 it is used to:

- ✔ enter the additional data, submenus and parameters (like key )

 it is used to:

- ✔ go back in the additional data, submenus and parameters;
- ✔ go back in the multiple choice parameters values;

4.2 Zeroing the scale

If with platform unloaded the display shows a value other than zero, press 

to reset.

4.3 Entering an Auto Tare

Place the weight to be acquired as tare value on the platform, and press .

The indication **NET** lights up on the display. By further loading the scale, the weight shown on the display increases and represents the net weight value.

4.4 Tare display

Press  to view the set tare.

4.5 Tare entered via keyboard

A tare value can be entered as follows:

✔ press  to start setting the tare value. Use the numerical keypad to enter the data;

✔ at the end of the operation press  to confirm the set tare value;

On completing the operation, the weight will be reset and the indications **NET** and **PT** will light up on the display.

4.6 Tare deletion

To delete a tare entered on the terminal and restore the gross weight display, press .

4.7 Gross/Net mode change

When a tare is in use, you can change Gross/Net display mode by pressing 

; the tare value is not changed and is re-proposed in Net mode.

4.8 Print/transmission of weighing data

Pressing  causes printing of the weight data and/or serial transmission of a data string of the configured port.

4.9 Entering numerical data (Numeric Keypad Entry)

Numerical values can be entered as follows:

- ✔ select the menu item associated with the value to be set; the display shows the currently stored value;
- ✔—you can enter the numerical digit using the corresponding key;
- ✔ at the end of the operation press  to confirm the set value;

Example of setting an MPP code:

select the MPP code by pressing the key  in succession, when “CODMPP” is displayed press ; when first pressed the last stored MPP Code is displayed, and the setting is ended by pressing .

4.10 Scale operator settings

Some operating configurations can be changed to adapt the instrument to your own operating needs. Select the item and press  to modify.

Pressing  to access the following parameters:

CODE	Numeric code for generic use (6 digits). The code remains set until an operator changes it.
SetPn1	Enter weight value for setpoint 1 if enabled.
SetPn2	Enter weight value for setpoint 2 if enabled.
SetPn.E	Enter weight value for Coarse Target if batching is enabled.
Preact	Enter weight value for Pre-act if batching is enabled.

TOTALS (only if enabled)	Allows selecting: PARTIAL TOTAL, GENERAL TOTAL and TOTAL PER CODE. After selecting the TOTALS, press  to select the required total, then press  to display the data . Press  to display the individual values relating to the total; in this phase it is possible to press  to obtain the print or  to execute the reset. The following data is reported in the partial total: date - time - weighing number – tare total – net total and pieces total (if pieces func.) The following data is reported in the general total: date - time – weighing number – tare total – net total and pieces total (if Pieces func.) The following data is reported in the total per code: Date - time – code -- weighing number – tare total – net total and pieces total (if Pieces func.) In case of double weighing operation the tare values are omitted. After printing a total, D70ES displays the message “Reset”, pressing  resets the total, pressing  or letting the display time expire (about 3 sec) no. **Attention** the general total resetting also causes the resetting of all other totals. **NB:** the terminal is able to store 8000 weighing and resetting operations; when this limit is reached, the NO TOT message is displayed If using the secondary measurement unit (secondary scale), the totals are distinguished for the two scales.

WEIGHT (single weighing operation only)	Enable weight mode (default)
PEAK (single weighing operation only)	Enable peak detection mode
DATE	Date / Enter format MM/DD/YY followed by 
TIME	Time / Enter military time HH/MM/SS followed by  . Note: All six digits must be entered (Including seconds)
ILLUM	**HIGH**
	The display works at maximum light intensity
	LOW
	The display works at minimum light intensity
	TIMER
	The display works at maximum intensity for 5 seconds if: ✔ any key is pressed; ✔ the weight indication undergoes a variation of at least 4 divisions.
OFF	Automatic switch-off **NO** not activated **YES** activated
VBAT	Shows the terminal power supply voltage, useful in case of battery power supply.
H.R.WEIGHT	Displays the weight in high resolution for a few seconds. The weight can also be displayed in the case of a scale underload.

CODE MPP (only if enabled)	Allows selecting/setting an MPP code. For each code you can display: net weight, tare (only if enabled), date and time of memorisation. To change the displayed data, press 
SETUP	Allows access in setup mode, only for the terminals with software selected under the “Legal” parameter.

4.11 Peak & Hold mode operation

It is used to detect the maximum peak applied on the weighing system.
Note: Print capability is not available while using this mode.

4.11.1 Peak & Hold Acquisition

- ✔ Once the component is placed on the scale, the terminal display shows the weight.
- ✔ The weight on the display continues to rise and during loading.
- ✔ After completing the procedure, the maximum peak detected remains on the display until the load is removed from the platform

4.12 Double weighing operation mode (input weight output weight)

It detects the weight of a transport vehicle at two different weighing intervals and calculates the delta between the two values. This system is generally used for ground weighing. This function requires for a printer to be connected. A code must be associated to each transport vehicle, automatically (**RCD**) or manually (**RCA**)

A demonstration video can be found by clicking the link below:
Performing a Truck In / Out Transaction Video

4.12.1 Double weighing Acquisition

The system provides 2 methods to perform **RCD** and **RCA** weighing while the **FUNCTION** parameter is set to "**RcD.IOU**":

RCD double weighing mode:

- ✔ Once the weight is shown on the display, press on the print key , the display shows the word "Rcd.###" following by the code associated to that particular truck. The terminal automatically generates a code from 1 to 300 which is printed on the inbound ticket.
- ✔ Before performing the second weighing press , enter the code issued on first weighing using the numeric keypad and press the print key 
- ✔ The terminal loads the first weight and calculates the value given by the difference with the second weighing, printing the result on the print
- ✔ Once the second weighing is completed, the used code is freed for subsequent use.
- ✔ The RCD code is generated in sequence; the codes rotate from 1 to 300.

RCA double weighing mode:

- ✔ Once the weight is shown on the display, press  and type the reference code (from 1 to 300) using the numeric keypad, confirm by pressing  (if the code has already been used, the terminal will not allow confirming the value). Press the print key  to print the detected weight with the related code.
- ✔ Before performing the second weighing press , enter the code issued on first weighing using the numeric keypad and press the print key 
- ✔ The terminal loads the first weight and calculates the value given by the difference with the second weighing, printing the result on the print
- ✔ Once the second weighing is completed, the used code is freed for subsequent use.

4.12.2 Double weighing Acquisition Prompt for ID Number

The system provides 1 method to perform ID Double Weighing while the **FUNCTION** parameter is set to "**ID.IOW**":

ID.IOW double weighing mode:

- ✔ Once the weight is shown on the display, press on the print key , the display shows the word "Id.no.?" following by "0" ID code. Enter the code from 1 to 300 associated to that particular truck followed by . The terminal prints the code on the inbound ticket.
- ✔ Before performing the second outbound weighing press , enter the code issued on first weighing using the numeric keypad and press the print key 
- ✔ The terminal loads the first weight and calculates the value given by the difference with the second weighing, printing the result on the print
- ✔ Once the second weighing is completed, the used code is freed for subsequent use.

4.12.3 Deleting unused RcD/ID codes

To cancel the outstanding RCD/RCA codes, proceed as follows:

press the key  and use the numeric keypad to enter the reference code (from 1 to 300) that you want to delete.

✔ confirm the code with the key  (the terminal displays the weight related to the input weigh)

✔ press the button ; before canceling the code, the terminal asks for confirmation by displaying the "SURE?" message if the operator presses the key  and the ID code is deleted

4.12.4 Double weighing Acquisition Keyed Tare Entry

Note: The tare weight can not exceed the trucks gross weight for keyed entry. Use Double Weighing acquisition when trucks are unloading product and leaving empty or use keyed tare function while truck is full and entering the yard.

RCD.IOW double weighing mode keyed tare:

✔ With the weight is shown on the display, press the display tare key , the display shows the word “Id no.” following by the next available code. Then the terminal displays “00” prompting for tare entry, use the numeric keypad to enter the truck’s tare weight followed by enter . Terminal prints the ticket.

ID.IOW double weighing mode keyed tare:

✔ With the weight is shown on the display, press the display tare key , the display shows the word “Id.no.?” following by “0” ID code. Enter the code from 1 to 300 associated to that particular truck followed by . The terminal displays “00”, enter the truck’s tare weight followed by . Terminal prints the ticket.

4.12.5 Print Gross weight with Time and Date in Double Weighing Mode

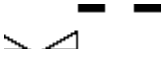
✔ Press the  key followed by 

4.12.6 Display and print inbound truck ID list

Press the  key followed by . Use  to scroll thru stored ID’s.

Press  while viewing list to print the inbound truck report.

5. ERROR MESSAGES

Message Displayed	Cause	Solution
OverLD	The scale is in overload	Reduce the weight to a value below the maximum capacity to bring it back to weighing zone. Replace overloaded (Stretched) load cell. Recalibrate Scale.
Undrld	The scale is in underload	Reposition the scale platform. Check for debris under the scale. Check load feet on floor scale are not inserted too far (touching under platform). Bad load cell, or connection. Recalibrate Zero Scale.
	Weight not resettable	Unload the scale platform and try switching on the terminal again. Verify internal counts (See 8.8)
	Unstable weight	Remove the cause of the weight instability and try switching on the terminal again. Bad Load Cell, Bad load cell connection. Environmental factors: Wind, vibration, material movement.
Lock then	Power on zero limit exceeded	Legal for trade power on zero range inhibits weight being displayed when powered on with weight from -5% to 15% of full scale. Correct weight on scale then reboot indicator.
No ID	The RCD Truck ID storage is full. (300 ID's)	Perform Outbound transactions to clear IDs, or Clear all transactions (See 8.9.3). If tickets are too short, IDs will not delete when paper out sensor is reached. Purchase longer tickets or shorten print.

No	Function disabled due to operating mode settings. Ex. Performing auto tare while using RCD ID mode.	If needed, have technician reconfigure **Funct** parameter for a different operation
Lock	Indicator is set to Legal for Trade Setting.	This is normal, wait for scale to settle then display weight. Usually takes around 5 seconds.
Prn.Off.	Print failed to execute	Turn on printer, insert paper (verify paper out light turns off), Turn on switch 3 under printer then reboot. Check connections. Verify com port parameters and lpt1 settings. RS232 must be bi-directional for handshaking.

6. CODING OF ERROR MESSAGES

Only one code is displayed with the errors; to delete it, turn the terminal off and on again.

Problem	Cause	Solution
-01- Faulty converter	Disconnected or interrupted scale connector	Turn off the terminal and check the proper connection of the connections of the scale home run cable. Connect to scale simulator and verify voltages. Verify internal counts (See 8.8)
	Faulty conversion board	Contact technical support service at 1-844-CAL-BTEK (844-225-2835)
-02- Parameter memory error	Voltage drop during an incorrect operation	Switch the instrument off and on again. If the error persists, enter parameters using the calibration button and recalibrate the scale. If problem still persists, perform parameter initialization, if still persists contact B-TEK to attempt reprogramming or replace the CPU board.
-04- Checksum error program	Faulty CPU board	Switch the instrument off and on again; perform parameter initialization; reload firmware and select global erase. if the error persists, contact B-TEK Scales Tech Support for possible replacement of the CPU board.
-05- RAM checksum error		
Err 81	Transmit Failed	When sending a custom transmit buffer, one or more files failed to load. Check the string formatting, and resend.



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