



Installation user's manual
version 0.1

CRANE SCALES

DTEZ



SYMBOLS

Here are the symbols used in the manual to draw the reader's attention:



Caution! Risk of electric shock.



Caution! This operation must be performed by skilled personnel.



Pay particular attention to the following instructions.



Further information.

WARRANTY

24 months from the date of the delivery note. Warranty covers only failures of defective components (due to construction defects or defects in materials) and includes replacement or repair of the components and related labor costs.

Warranty is automatically forfeited in the event of:

- tampering, deletion, removal of the identification label and/or serial number of the product
- misuse, transformation, alteration, repair of products not carried out by Laumas personnel

Laumas provides a 1-year warranty from the date of the delivery note on defects in material or manufacture of the battery.

GUIDELINES FOR PROPER DISPOSAL



**Sealed Lead Acid
Battery
Must be recycled
Properly**

This symbol on the product or packaging indicates that:

- This is electrical/electronic equipment and cannot be disposed of as municipal solid waste, but must be delivered to a recycling center
- Improper use or disposal can pollute the environment or damage human health
- Non-compliance with these guidelines will be penalized in accordance with the regulations in force in the country of destination
- It is recommended to dispose of the packing and packaging as required by local regulations

TABLE OF CONTENTS

SAFETY GUIDE	1
BATTERY	1
MAIN FEATURES	2
TECHNICAL DATAI	3
DIMENSIONS	4
CRANE SCALE DISPLAY	5
KEYS ON CRANE SCALE	5
REMOTE CONTROL DISPLAY	6
KEYS ON REMOTE CONTROL.....	6
MEANING OF LED LIGHT SIGNAL	6
TURNING ON	7
TURNING OFF	8
ZERO-SETTING	8
NET WEIGHT FUNCTION	9
GROSS WEIGHT FUNCTION	9
PEAK FUNCTION	9
ENTRY AND EXIT FROM PROGRAMMING MENU.....	10
BATTERY CHECK BY REMOTE CONTROL	10
DISPLAY UNIT SWITCH	10
WEIGHT TOTALIZATION	11
VIEW TOTAL MODE	12
DELETE LAST TOTAL	12
SETUP SYSTEM	13
SCALE CALIBRATION PROCEDURE	16
MESSAGE ILLUSTRATION.....	17
TROUBLESHOOTING	18
DECLARATION OF CONFORMITY - EU	19
DECLARATION OF CONFORMITY - UKCA	20

SAFETY GUIDE

The following points must be observed for a correct and safe use of crane scale:

- Do NOT exceed the maximum capacity of the scale (overload). This will damage the load cell and void the guarantee (no guarantee is applicable if overload condition has occurred).
- Do NOT leave the load hung on the scale for long time.
- Inspect shackle and hook before using. Check the clips, pins and screws regularly. In case of damage contact your dealer for replacement with original parts.
- Check the battery power frequently
- Rotate the load rather than the scale itself if needed.
- Do NOT use the scale under thunder or rain.
- Hang scale on shelf in dry and well-ventilated room. Do NOT use the scale in places subject to abrupt rush of wind.
- Do NOT attempt to repair the scale yourself. Contact your dealer.

BATTERY

CRANE SCALE

Alkaline batteries 1.5 V (AA) x 3

Average batteries life: 50 hours (with 3 new batteries)

REMOTE CONTROL

Alkaline batteries 1.5 V (AA) x 4

Average batteries life: 80 hours (with 4 new batteries)

Low battery warning: replace the battery when the weight digits flash on the display.

The crane scale and the remote control will turn off automatically after half an hour of inactivity.

MAIN FEATURES

System composed of:

- Multifunction portable crane scale with two shackles; five-digit backlit LDC display (25mm)
- Wireless remote control display for weight radio transmission: 30 m transmission range in free air space; keyboard access to the functions of weighing and calibration.

- **Great Safety**

Aluminum-casting case, high firm hook and ring, dedicated weighing load cell for safety installation.

- **Strong Reliability:**

Cutting-edge technology, quality integrated circuit for high performance and long time stability.

- **Broad Applicability:**

Popular and applicable in storage, textile, metallurgy industry, and so forth.

- **Easy Operation:**

Remote control with display and access to the functions of weighing and calibration.

- **Easy Transport:**

Aluminum briefcase included.

- **Multifunction:**

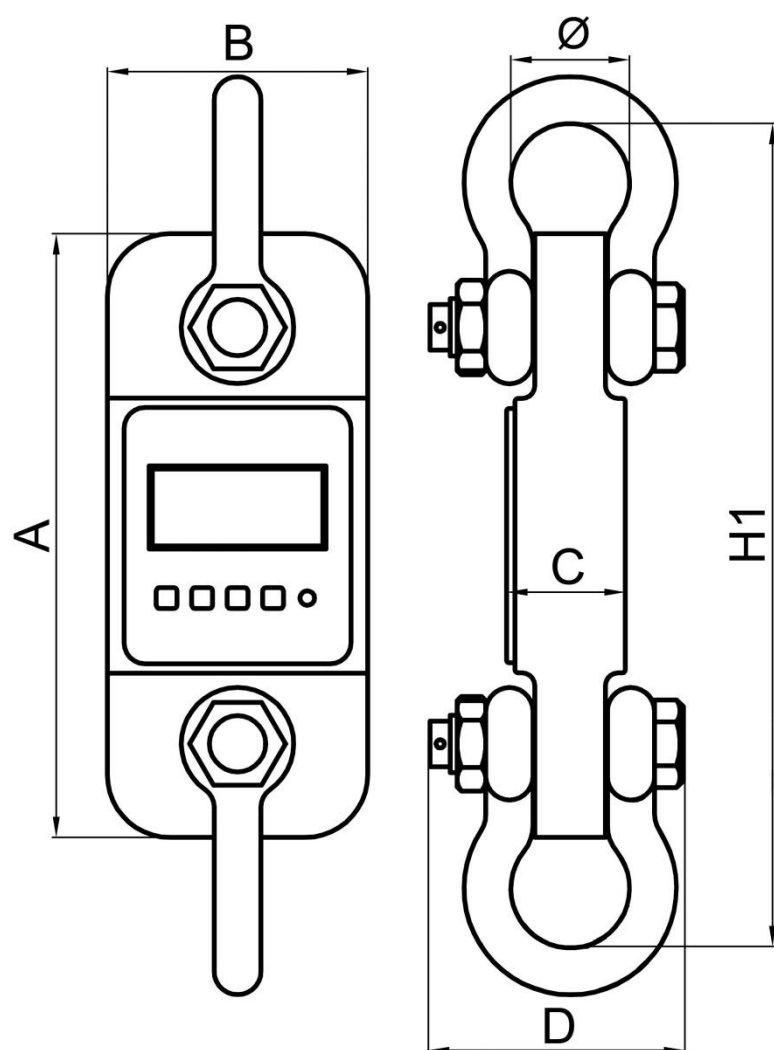
Measurement unit conversion; automatic power save; automatic battery inspection; weight totalization function; peak function (maximum value read); net/gross function.

MODEL	NOMINAL LOAD	STANDARD RESOLUTION
DTEZ 3 (aluminum)	3000 kg	1 kg
DTEZ 5 (aluminum)	5000 kg	2 kg
DTEZ 10 (stainless steel)	10000 kg	5 kg
DTEZ 20 (stainless steel)	20000 kg	10 kg
DTEZ 30 (stainless steel)	30000 kg	10 kg

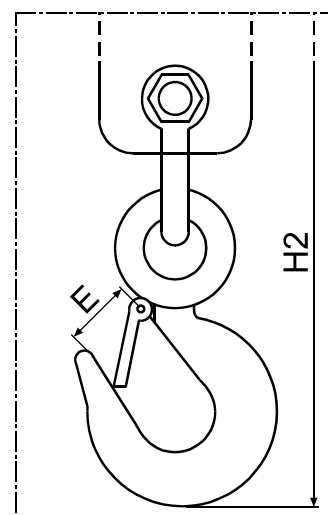
TECHNICAL DATAI

Accuracy class	+/- 0,01 % F.S.
Protection rating	IP64
Max readings per second	10
Safe overload	150% F.S.
Ultimate overload	400% F.S.
Battery type	batteries stylus (AA) 1.5 V (3 pieces for crane scale, 4 pieces for remote control)
Operating temperature range	- 10 °C + 40 °C
Humidity (condensate free)	10-90%
Display	25mm (1") 5 digits LCD
Max distance for wireless remote control	15 metri
Radio frequency	868 MHz

DIMENSIONS

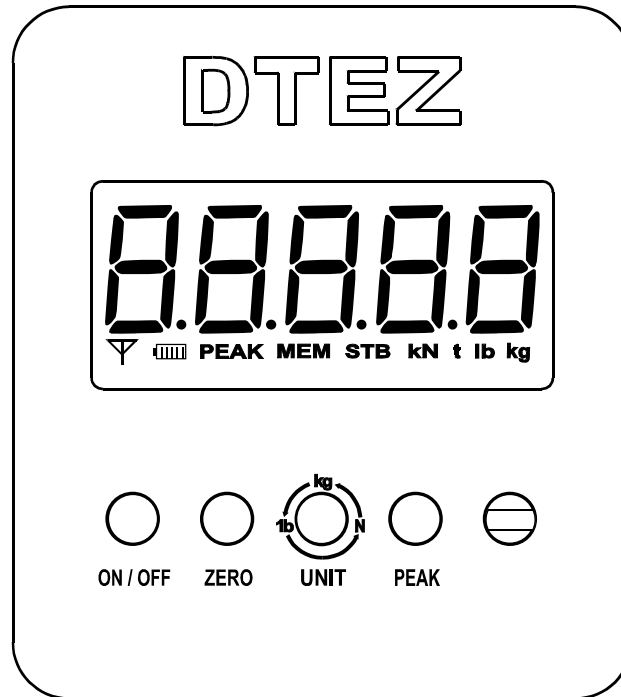


HOOK OPTION



CAPACITY	A (mm)	B (mm)	C (mm)	D (mm)	Ø (mm)	H1 (mm)	H2 (mm)	E (mm)	Peso	Hook weight
3000kg	260	123	37	103	51	365	555	55	6.4 kg	3 kg
5000kg	285	123	57	120	58	405	635	65	8.8 kg	5,5 kg
10000kg	320	120	57	183	92	535	840	95	24.7 kg	5,9 kg
20000kg	420	128	74	230	127	660	-	-	44.7 kg	-
30000kg	420	138	82	265	146	740	-	-	63 kg	-

CRANE SCALE DISPLAY



KEYS ON CRANE SCALE

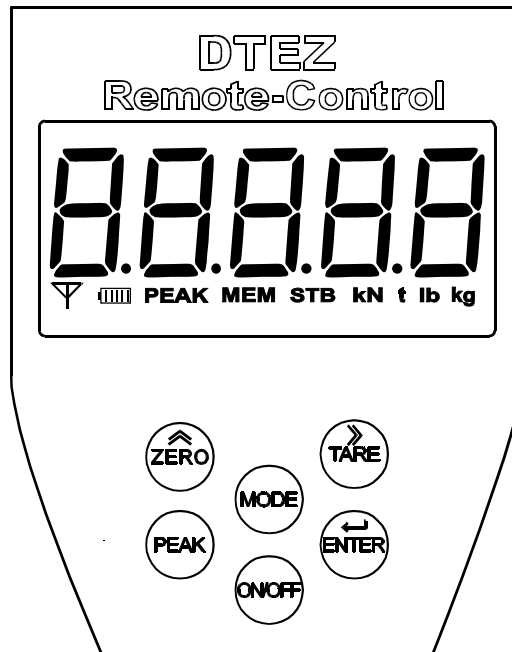
ON/OFF : Turning on / Turning off (hold down the button for 1 second)

ZERO : Zeroing

UNIT : Switches the unit measure: kg , t , N , kN , Lb .

PEAK : Enables /disable peak function.

REMOTE CONTROL DISPLAY



KEYS ON REMOTE CONTROL

ON/OFF: Turning On/ Turning Off by remote control (hold down the button for 1 second)

ZERO : Zeroing

ENTER : To confirm the set data into the programming menu

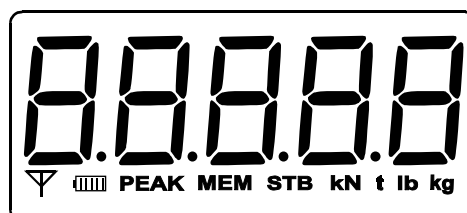
PEAK : Enables /disable peak function.

TARE : Tare zero-setting (Net/Gross function).

MODE : Access to programming menu

MEANING OF LED LIGHT SIGNAL

(on CRANE SCALE display and on REMOTE CONTROL display)





: active radio communication between CRANE SCALE and REMOTE CONTROL.
when the light signal not appears = no communication
when the light signal flashes = low signal



: battery charge level.

PEAK : Peak function active

MEM : total stored signal

STB : steady weight signal.

kN : Kilo Newton displaying.

N : Newton displaying; flashing indicates a tare zero-setting (net/gross function).

t : ton displaying.

lb : pound displaying

kg : kilograms displaying.

TURNING ON

Press **ON/OFF** button on crane scale. During powering up will see the following messages:

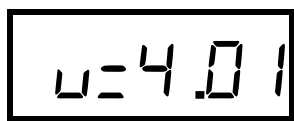
Autotest of the display



Crane scale model



Software version



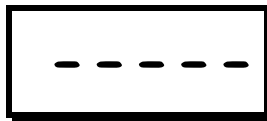
The maximum capacity will be displayed. For example, the scale shows its full capacity, 5000 kg :

A digital display showing the number 5000.

Battery check is then performed. If battery works well, the display flashes the battery charge value twice. Crane scale must work with battery voltage range from 3.50Vdc to 4.70Vdc.

A digital display showing the text "U 4.30".

The display shows detection message while scale detects its load and Auto-Zero itself to Zero status, when the Auto-Zero function is enabled.

A digital display showing four dashes "----".

At the end, the scale is completely powered up, it is ready to weigh.

TURNING OFF

The scale must be in Weighing Mode. Press **ON/OFF** button on scale or, see next paragraph, turning off on remote control. Scale performs the battery check and shows the battery charge value.

A digital display showing the text "U 4.30".

The Power Off message is displayed:

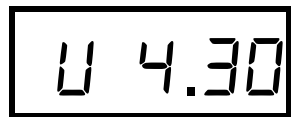
A digital display showing the text "OFF".

TURNING OFF ON REMOTE CONTROL

The scale must be in Weighing Mode. Press **MODE** on remote control; will be displayed:

A digital display showing the text "OFF".

Press **ENTER** button to turning off. Scale performs the battery check and shows the battery charge value.

A digital display showing the text "U 4.30".

The Power Off message is displayed:

A digital display showing the text "OFF".

ZERO-SETTING

To set a value to zero press **ZERO** button on scale or on remote control.
The display will show zero:



NET WEIGHT FUNCTION (TARE IN)



Before proceeding to make sure that the scale must be in Gross mode. N signal is not flashing.

To Tare In a tare weight into the scale, press **TARE** button on remote control. The scale stores a tare weight and shifts to Net mode. The scale will display zero and the N signal is flashing



Tareing will reduce the apparent overloading range of the scale. For example, if a 1000kg container is tared and the scale maximum capacity is 5000 kg, the scale will overload at a new weight of 4009kg ($5000 - 1000 + \text{additional } 9 \text{ divisions}$).

GROSS WEIGHT FUNCTION (TARE OUT)



Before proceeding to make sure that the scale must be in Net mode. N signal is not flashing.

To Tare Out the tare weight out of scale, press **TARE** button on remote control.

PEAK FUNCTION

To lock the maximum weight value reading on the display, press the **PEAK** button on crane scale or on remote control. PEAK signal will appear. From this moment the maximum weight will be displayed.

To disable the function peak, press the **PEAK** button again.
PEAK signal will disappear and the crane scale will return to current weight.

ENTRY AND EXIT FROM PROGRAMMING MENU

To access programming menu of the crane scale, press the **MODE** button on remote control. To exit menu without making any changes, press the **MODE** button until the display will show the message:



To return in Weighing mode press the **ENTER** button.

BATTERY CHECK BY REMOTE CONTROL

BATTERY CHARGE STATUS CONTROL BY REMOTE CONTROL

Press the **MODE** button 3 times, will be displayed:



Press the **ENTER** button, will be displayed the battery charge value in voltage:



To return in Weighing mode press the **MODE** button.



Crane scale must work with battery voltage range from 3.50Vdc and 4.70Vdc.

DISPLAY UNIT SWITCH

(kg / lb)

FROM CRANE SCALE

To change the scale's Display Unit, press **UNIT** button on crane scale

FROM REMOTE CONTROL

Press the **MODE** button 4 times, will display:



Press the **ENTER** button will display:

A digital display showing the text "Un= 1" in a seven-segment font.

Select the units of measurement by pressing the **ZERO** button: 0 = kilogram (kg); 1= pound (lb); 2 = Newton (N); 3 = kiloNewton (kN); 4 = ton (t)
Press the **MODE** button to confirm.

WEIGHT TOTALIZATION

Press **MODE** button on remote control 5 times. The display shows the message as below:

A digital display showing the text "ACCU" in a seven-segment font.

Press **ENTER** button on crane scale to storage the weight present on crane scale. The display shows the messages:
Number of weighted

A digital display showing the text "no .00 1" in a seven-segment font.

Weight value stored

A digital display showing the text "00500" in a seven-segment font.

Total amount stored up to that moment, subdivided into 8 digits (4 high H , 4 low L).
Example: TOTAL = 10430

A digital display showing the text "H000 1" in a seven-segment font.A digital display showing the text "L0430" in a seven-segment font.

The displayed value on scale must return to "0" before next weight reading can be added. This assures that a load on the scale is only added to the Total once.

VIEW TOTAL MODE

To enter the View Total Mode, press the **MODE** button 6 times. The display shows the message:



Press the **ENTER** button. The display shows the messages:
Number of weights stored



Weight value stored (from last weighted)



Total amount stored up to that moment, subdivided into 8 digits (4 high H, 4 low L).
Example: TOTAL = 10430



It is possible scrolling through the weight value stored: press the **ZERO** button.
To return in Weighing mode press the **MODE** button.

If there are no weights stored. The display shows the message:



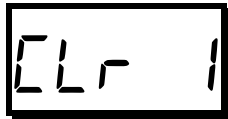
To exit press **MODE** button.

DELETE LAST TOTAL

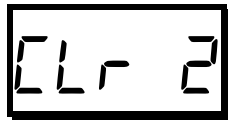
In Weighing Mode, press the **MODE** button 7 times. The display shows the below message:



Press the **ENTER** button. The display shows the below message:

The LCD display shows the text "CLr 1" in a digital font.

Press the **MODE** button, to delete the last accumulated weights reading, or press the **TARE** button.
The display shows the below message:

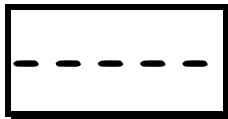
The LCD display shows the text "CLr 2" in a digital font.

Press the **MODE** button to delete all weights stored (complete deletion) or press the **TARE** button.
The display shows the below message:

The LCD display shows the text "noCLr" in a digital font.

Press the **MODE** button to exit without deleting.

After a deletion (single or total) will appear the following confirmation messages:

The LCD display shows a series of dashes "-----".The LCD display shows the number "00000" in a digital font.

SETUP SYSTEM

(reserved for the installer, accessible menu only by remote control)

Press the **MODE** button twice. The display shows the below message:

The LCD display shows the text "SETUP" in a digital font.

Press the **ENTER** button. The display shows the below message:

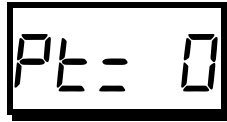
The LCD display shows the text "FS=05" in a digital font.

DO NOT MODIFY THIS VALUE. This is the full scale expressed in thousands (example for crane scale 5000 kg = 05). Press the **ENTER** button. The display shows the below message:

The LCD display shows the text "1 d=0 1" in a digital font.

DO NOT MODIFY THIS VALUE. This is the division value : 1 , 2 , 5 , 10 , 20 .

Press the **ENTER** button. The display shows the below message:

A digital display with a black border showing the text "Pt = 0" in a white, monospaced font.

DO NOT MODIFY THIS VALUE. This is the decimals number: 0 , 1 , 2, 3 .

Press the **ENTER** button. The display shows the below message:

A digital display with a black border showing the text "Ab = 34" in a white, monospaced font.

A (flashing)

The scale can be zeroed manually (by crane scale or by remote control)

To modify de value press the **ZERO** button : 0 = 0% of the FS; 1 = 2% of the FS; 2 = 4% of the FS; 3 =10% of the FS ; 4=20% of the FS ; 5=50% of the FS .

Press the **ENTER** button to confirm. The display shows the below message:

b (flashing)

Autozero limit setting at startup

To modify de value press the **ZERO** button : 0 = 0% of the FS; 1 = 2% of the FS; 2 = 4% of the FS; 3 =10% of the FS; 4=20% of the FS ; 5=50% of the FS .

Press the **ENTER** button to confirm. The display shows the below message:

A digital display with a black border showing the text "Cd = 42" in a white, monospaced font.

C (flashing)

Zero tracking division setting

To modify de value press the **ZERO** button: 0 = 0 div. ; 1 = 0.5 div., 2 = 1 div., 3 =1.5 div.; 4= 2 div.; 5= 2.5 div.

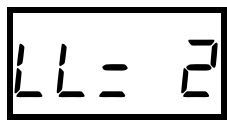
Press the **ENTER** button to confirm. The display shows the below message:

d (flashing)

Speed display setting

To modify de value press the **ZERO** button: 0 = slow. ; 1 = normal., 2 = fast.

Press the **ENTER** button to confirm. The display shows the below message:

A digital display with a black border showing the text "LL = 2" in a white, monospaced font.

Increase the filter value to reduce the weight oscillations: the higher the set value, the slower is the weight oscillation on the display.

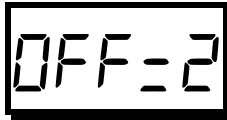
To modify de value from 0 to 5 press the **ZERO** button (default=2).

Press the **ENTER** button to confirm. The display shows the below message:

A digital display with a black border showing the text "Un= 0" in a white, segmented font.

Select the units of measurement by pressing the **ZERO** button: 0 = kilogram (kg); 1= pound (lb); 2 = Newton (N); 3 = kiloNewton (kN); 4 = ton (t)

Press the **ENTER** button to confirm. The display shows the below message:

A digital display with a black border showing the text "OFF=2" in a white, segmented font.

Power saving and auto turning off: 0 = disabled; 1 = The power saving function is activated after 15 minutes of inactivity, the crane scale display and remote control display show the hyphen "-"; 2 = The power saving function is activated after 15 minutes of inactivity, the crane scale display and remote control display show the hyphen "-", auto turning off is activated after 60 minutes of inactivity, the crane scale and remote control turned off.

Press the **ENTER** button to confirm. The display shows the below message:

A digital display with a black border showing the text "SP 1" in a white, segmented font.

Set the Set-Point 1 with acoustic warning function by remote control. Press the **ENTER** button. The display shows the below message:

A digital display with a black border showing the text "1 LO" in a white, segmented font.

Acoustic warning function mode setting:

LO = the acoustic warning is on for the lower weight values to the Set-Point 1;

HI = the acoustic warning is on for the higher weight values to the Set-Point 1;

OFF = the acoustic warning is off

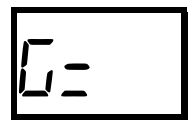
Press the **ENTER** button. The display shows the below message:

A digital display with a black border showing the text "0000" in a white, segmented font.

Set the weight value of the Set-Point 1; press the **ZERO** button to increase the value; press the **TARE** button to move to the next digit. Press the **ENTER** button to confirm.

A digital display with a black border showing the text "SP2" in a white, segmented font.

Set the Set-Point 2 with acoustic warning function by remote control: proceed with the settings as Set-Point 1. Press the **ENTER** button to confirm. The display shows the below message:

A digital display with a black border showing the text "G= '" in a white, segmented font.

Set the Gravity Acceleration – place of use. Press the **ENTER** button. The display shows the below message:

A digital display showing the value 9.806 in a seven-segment font.

Press the **ZERO** button to increase the value; press the **TARE** button to move to the next digit. Press the **ENTER** button to confirm.

PRESS THE MODE BUTTON TO EXIT SETUP AT ANY TIME

SCALE CALIBRATION PROCEDURE

(reserved for the installer, accessible menu only by remote control)

Press the **MODE** button 8 times The display shows the below message:

A digital display showing the text CL br in a seven-segment font.

Press the **MODE** button. The display shows the below message:

A digital display showing the text CAL 1 in a seven-segment font.

Press the **ENTER** button. The display shows the below message:

A digital display showing the text CAL SP in a seven-segment font.

Press the **ENTER** button. The display shows the below message:

A digital display showing the text LOAd in a seven-segment font.

Load the sample weight and press the **ENTER** button. The display shows the below message:

A digital display showing the value 00000 in a seven-segment font.

Press the **TARE** button, set the sample weight value using the **ZERO** button to increase the value; press the **TARE** button to move to the next digit. Press the **MODE** button to confirm. The display shows the below message:

A digital display showing the text End in a seven-segment font.

Turn off crane scale and remote control to save the calibration.

MESSAGE ILLUSTRATION

no SI G	Without wireless signal
U 430	Battery left charge.
-----	The weight reading is too great, or out of range
-----	The weight reading is too little, or out of range.
-----	Waiting
Err 10	Totalization is not executed . Weigh less than the minimum weight. (minimum weight = x 20 division) .
Err 11	Totalization is not executed. The limit of 30 total weighted has been exceeded.
Err 12	Totalization is not executed. The limit of 99999 kg has been exceeded.
Err 13	Totalization is not executed.
UnStb	Attempts to execute an operation in weight stable.
- oL -	The tare plus the net exceeded the maximum capacity.
- Lb -	Low battery warning . Turn off automatically one minute later.

TROUBLESHOOTING

SYMPTOMS	POSSIBLE CAUSES	SUGGESTED SOLUTIONS
Display flashed at low brightness	Discharged battery	Recharge the battery
Display reading not stable	The scale is in great motion	Wait until the scale is stable
	Filter (Anti-Motion) set too low	Change filter (Anti-Motion) setting
	The scale is damped	Dry the scale
	Dust on PCB boards	Clean PCB board
Reading not zero without load	The load-cell stressed too much and too long	Hang the scale in storage
Large error in weight reading	The scale is not zeroed before applying load	Zero the scale before loading
	Require re-calibration	Re-calibrate the scale
	lb/kg unit in wrong selection	Set correct unit
Short remote controlling distance	Remote control batteries are dead	Replace remote control batteries

DECLARATION OF CONFORMITY - EU

LAUMAS*Innovation in Weighing*

SISTEMI DI PESATURA INDUSTRIALE - CELLE DI CARICO - BALANCE

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N. IT09060P00000982 - Registro A.E.E. N. IT08020000002494 - N. Mecc. PR 008385 - Cap. Sociale € 100.000 int. vers.

SISTEMA QUALITÀ CERTIFICATO UNI EN ISO 9001 - SISTEMA GESTIONE AMBIENTALE ISO 14001 - MODULO D: GARANZIA DELLA QUALITÀ DEL PROCESSO DI PRODUZIONE

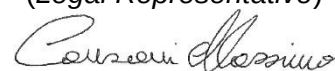
I	Dichiarazione di conformità	Dichiariamo che il prodotto al quale la presente dichiarazione si riferisce è conforme alle norme di seguito citate.
GB	Declaration of conformity	We hereby declare that the product to which this declaration refers conforms with the following standards.
E	Declaración de conformidad	Manifestamos en la presente que el producto al que se refiere esta declaración está de acuerdo con las siguientes normas
D	Konformitäts-erklärung	Wir erklären hiermit, dass das Produkt, auf das sich diese Erklärung bezieht, mit den nachstehenden Normen übereinstimmt.
F	Déclaration de conformité	Nous déclarons avec cela responsabilité que le produit, auquel se rapporte la présente déclaration, est conforme aux normes citées ci-après.
CZ	Prohlášení o shode	Tímto prohlašujeme, že výrobek, kterého se toto prohlášení týká, je v souladu s níže uvedenými normami.
NL	Conformiteit-verklaring	Wij verklaren hiermede dat het product, waarop deze verklaring betrekking heeft, met de hierna vermelde normen overeenstemt.
P	Declaração de conformidade	Declaramos por meio da presente que o produto no qual se refere esta declaração, corresponde às normas seguintes.
PL	Deklaracja zgodności	Niniejszym oświadczamy, że produkt, którego niniejsze oświadczenie dotyczy, jest zgodny z poniższymi normami.
RUS	Заявление о соответствии	Мы заявляем, что продукт, к которому относится данная декларация, соответствует перечисленным ниже нормам.

Models: DTEZ

Mark Applied	EU Directive	Standards
CE	2014/35/EU Low Voltage Directive	Not Applicable (N/A)
CE	2014/30/EU EMC Directive	EN 61326-1:2013 EN61326-2-2:2013
CE	2006/42/EU Machinery Directive	EN13155:2020

Montechiarugolo (PR), 08/05/2024

LAUMAS Elettronica s.r.l.
M. Consonni
(Legal Representative)



DECLARATION OF CONFORMITY - UKCA



SISTEMI DI PESATURA INDUSTRIALE - CELLE DI CARICO - BILANCE

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SISTEMA QUALITÀ CERTIFICATO UNI EN ISO 9001 - SISTEMA GESTIONE AMBIENTALE ISO 14001 - MODULO D: GARANZIA DELLA QUALITÀ DEL PROCESSO DI PRODUZIONE

I	Dichiarazione di conformità	Dichiariamo che il prodotto al quale la presente dichiarazione si riferisce è conforme alle norme di seguito citate.
GB	Declaration of conformity	We hereby declare that the product to which this declaration refers conforms with the following standards.
E	Declaración de conformidad	Manifestamos en la presente que el producto al que se refiere esta declaración está de acuerdo con las siguientes normas
D	Konformitäts-erklärung	Wir erklären hiermit, dass das Produkt, auf das sich diese Erklärung bezieht, mit den nachstehenden Normen übereinstimmt.
F	Déclaration de conformité	Nous déclarons avec cela responsabilité que le produit, auquel se rapporte la présente déclaration, est conforme aux normes citées ci-après.
CZ	Prohlášení o shode	Tímto prohlašujeme, že výrobek, kterého se toto prohlášení týká, je v souladu s níže uvedenými normami.
NL	Conformiteit-verklaring	Wij verklaren hiermede dat het product, waarop deze verklaring betrekking heeft, met de hierna vermelde normen overeenstemt.
P	Declaração de conformidade	Declaramos por meio da presente que o produto no qual se refere esta declaração, corresponde às normas seguintes.
PL	Deklaracja zgodności	Niniejszym oświadczamy, że produkt, którego niniejsze oświadczenie dotyczy, jest zgodny z poniższymi normami.
RUS	Заявление о соответствии	Мы заявляем, что продукт, к которому относится данная декларация, соответствует перечисленным ниже нормам.

Models: DTEZ

Mark Applied	UK legislation	Standards
UK CA	Electrical Equipment (Safety) Regulations 2016	<i>Not Applicable (N/A)</i>
UK CA	Electromagnetic Compatibility Regulations 2016	BS EN 55011:2013 BS EN 55024:2010+A1:2015
UK CA	The Supply of Machinery (Safety) Regulations 2008	BS EN 13155:2020

Montechiarugolo (PR), 08/05/2024

LAUMAS Elettronica s.r.l.
M. Consonni
(Legal Representative)

On our website www.laumas.com there are videos on the guidelines for correct installation of weighing systems and video tutorials on configuring our transmitters and weight indicators.

All Laumas product manuals are available online. You can download the manuals in PDF format from www.laumas.com by consulting the Products section or the Download Area. Registration is required.

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