EGT-AF03 USER GUIDE



VEHICLE WEIGHING SYSTEMS WITH INPUT/OUTPUT FUNCTION



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1 INTRODUCTION

This manual was created to help you install and learn all about the functional possibilities of the purchased indicator.

The instrument is suitable for use in various weighing environments.

Not only does it have all the normal features of high-precision scales, but it also gives you the possibility to work in specific environments due to the functioning modes contained in the software implemented in the FLASH MEMORY on the internal board. This makes the instrument extremely flexible and it can be used in many different industrial applications linked to weighing. The touch screen, the numerical and function keyboard, allow the operator an easy and immediate use and provide the microcontroller with DATA ENTRY functions in addition to the normal weighing functions. The input/output allows the instrument to control various external devices, to receive external commands, control a printer and communicate with a personal computer or to be inserted in a network of weight indicators controlled by a PC.



Please note that this instrument is covered by a warranty and **MUST NOT BE OPENED BY THE USER** for any reason whatsoever. Any attempt to repair or modify the unit exposes the user to the risk of electric shock and will invalidate the entire warranty.

If any problems are found in the unit or with the system in which it is used, the fact must be communicated to the manufacturer or the dealer from whom it was purchased.

In any case, **DISCONNECT THE POWER SUPPLY** before taking any action.

- Do not pour liquids on the weight indicator.
- ✤ Do not use solvents to clean the weight indicator.
- **4** Do not expose the instrument to direct sunlight nor place it near heat sources.
- Place or anchor the weight indicator and platform on a non-vibrating base.
- All the connections of the indicator have to be made respecting the rules applicable in the zone and in the installing environment.

Everything not expressly described in this manual has to be considered as improper use of the equipment.

Do not install in any area where there is a risk of explosion.



The crossed-out wheeled bin on the product means that at the product end of life, it must be taken to separate collection or to the reseller when a new equivalent type of equipment is purchased. The adequate differentiated refuse collection in having the product recycled, helps to avoid possible negative effects on the environment and health and supports the

recycling of the materials of which the equipment is made. The unlawful disposal of the product by the user will entail fines foreseen by the current regulations.

Used symbols through the manual

$\mathbf{\underline{\wedge}}$	ATTENTION! Only qualified personnel must perform this operation
	ATTENTION! This is referred to working with live wires: only qualified personnel must perform this operation.
CE	CE CONFORMITY
III	IDENTIFIES THE CLASS OF PRECISION.
	It identifies an advanced function explained in the technical manual (for technical personnel).

TECHNICAL SPECIFICATIONS

	12 Vdc (8 ÷ 24 Vdc in the IO versions), with internal 100 ÷ 240 Vac (50÷60				
POWER SUPPLY	Hz) / 12 Vdc adapter.				
MAXIMUM POWER	16 VA.				
OPERATING TEMPERATURE	From -10 to +40 °C.				
CONVERTER	24 bit Sigma Delta.				
CONVERSION SPEED	200 conv./sec with automatic selection.				
RANGE OF INPUT SIGNAL	0.6 mV/V – 3.2 mV/V.				
MINIMUM VOLTAGE PER DIVISION	0.3 μ V (approved instrument); 0.03 μ V (non-approved instrument).				
AUTOMATIC ZERO DETECTION	Only in gross mode, programmable at +/- ¼, ½, 1, 2 divisions.				
ZERO RANGE	Configurable up to $+/-50\%$ of max load capacity.				
AUTO ZERO AT START-UP	Configurable up to +/- 50% of max load capacity.				
LOAD CELL POWER SUPPLY	$5Vdc \pm 5\%$, 120mA (max 8 350 Ω cells).				
LOAD CELL CONNECTIONS	6 wires with Remote Sense.				
DISPLAY DIVISIONS	10000e, 3 x 3000e for legal for trade weighing, expandable up to 800.000 for internal use (with minimum signal coming from the 1.6 mV/V cell)				
DISPLAYS	Granhic touch screen 320x240 dots (black & white)				
	Customers database of 500 items (3 descriptions of 25 characters each)				
	Materials database of 500 items (2 descriptions of 20 characters each)				
DATABASE/MEMORY	Vehicles database of 500 items (10 characters plate, 20 characters				
	description. linked tare)				
SIGNALS	3-way control light				
	Impermeable polycarbonate keyboard (IP65 protection degree), with				
KEYBOARD	membrane keys with audible and tactile feedback.				
	Calibration and linearity (up to 8 points), fully digital and programmable				
PARAMETER SETUP	from the keyboard or from PC with Dinitools ™.				
CLOCK/DATE	Fitted, with buffer RAM.				
	- 2 input/output RS232 ports on terminal board/ amp connector.				
SERIAL OUTPUTS	- 1 input/output RS485 port on terminal board or RS232 on amp				
	connector.				
	- Management of PC keyboard or barcode reader				
	- 2 optoisolated inputs (optoisolated photo couplers), 12Vdc – 24Vdc,				
	20mA max				
	- 4 outputs (optoisolated photomosfets), 48Vac / 0.15A, 60Vdc / 0.15A, 10				
INPUTS AND OUTPUTS	Ω max.				
	With IO expansion:				
	- 8 inputs (optoisolated photo couplers), 12Vdc – 24Vdc, 20mA max.				
	- 16 outputs (optoisolated photomosfets), 48Vac / 0.15A, 60Vdc / 0.15A,				
	10 Ω max.				
	16-bit analogue output configurable from keyboard (full-scale value; zero				
ANALOG OUTPUT (with analog	scale value and minimum value) from 0 to 10 Vdc or from 0 to 20mA; the				
expansion board)	maximum resistance applicable on the output current is 350 Ω and the				
	Γ minimum resistance applicable on the output voltage is 10 KΩ.				

3 INSTALLATION

3.1 Case and dimensions

The indicator has an STAINLESS STEEL case, whose external dimensions are shown in the Figure 1. It can be simply put on a table or fixed to a shelf or column available on request.

NOTE: If the identification plate is supplied separately (therefore not attached to the indicator), it is advisable to attach it to the indicator, in order to be able to identify the instrument.







Part	Description
1	RJ45 connector
2	Fixing for shelf or column mounting
3	Available for load cells / serial lines / inputs / outputs
4	Power supply input

3.2 Power supply

The indicator is powered with 12Vdc voltage (8 \div 36 Vdc in the IO version), through an internal adapter which converts the 100 \div 240Vac, 50 \div 60Hz mains voltage.

To power the instrument through the 240 Vac mains insert the plug and the adapter to the 240 Vac mains socket.

- To connect the indicator to the power mains, the safety regulations must be observed, including the use of a "clean" line without disturbances or interference caused by other electronic equipment.
- Do not connect other equipment to the same socket as the one that the adapter is in.
- ✤ Do not step on or crush the power supply cable.

3.3 Start up

Step	Description	Screen
1	Press the key until when the instrument powers on	THE REPORT OF TH
2	The logo (Logo to show at the start up) and the software version appear for some instants. EGT-AF03-XX is the name of the installed software, in which XX identifies the language. XX.YY is the installed software version.	Scales - Weighing systems Scales - Weighing sys
3	The zeroing procedure clears the weight on the scale within the tolerance (Automatic zeroing at start up)	Zeroing Zeroing on Scale 1 underway. Please wait GROSS= Økg Z EGT-AFO3-EN 01.00
4	The main screen appears on the display	+0+ #30383 0 1 #0:3 1:5:08 28/11/12 ks 0 0 #318323 0 0 #0:30083 0 0 #0:30083 0 0 #0:30083 0 0 #0:30083 0 0 #0:30083 0 0 #0:30083 0 0 #0:30083 0 0 #0:30083 0 0 #0:30083 0 0 #0:30083 0 0 #0:30083 0 0 #0:30083 0 0 #0:30083 0 0 #0:30083 0 0 #0:30083 0 0 #0:30083 0 0 #0:30083 0 0 #0:30083 0 0 #0:30093 0 0 #0:30093 0 0 #0:30093 0 0 #0:30093 0 0

3.4 Turning off the instrument

To turn off the indicator press the key until when the logo appears on the display.



Figure 3. Front panel

Part	Description						
1	Touch screen						
2	Cross light (3 colors)						
3	Keyboard						

4.1 Display

The indicator presents 2 main screens, illustrated in the below scheme:



Figure 4. First main screen





Element	Description								
1	Display indicators								
2	Active scale								
	Touch to switch to the next scale								
3	Time and date								
	Touch to change the date								
4	Weight value on the active scale								
	Touch to tare the gross weight								
5	Tare value								
	Touch to insert a preset tare								
6	Description of the first input text (LOT)								
	Touch to change the description of the first input text								
7	Net value of the general total								
	Touch to print and reset the general total								
8	Number of weighs of the general total								
	Touch to print and reset the general total								
9	Selected customer								
	Touch to select a customer								
10	Selected material								
	Touch to select a material								
11	Selected vehicle								
	Touch to select a vehicle								
12	System messages area								
13	Touch to execute the entry weigh								
14	Touch to execute the exit weigh								
15	Touch to print								
16	Touch to switch to the next screen								
17	Touch to manage the customers database								
18	Touch to manage the materials database								
19	Touch to access to the indicator functions								
20	Touch to manage the vehicles database								
21	Touch to manage the input texts								

4.1.1 Display Indicators

Symbol	Description
<u>م0 د</u>	The weight detected by the weighing system is near the zero,
101	included within the interval of $-1/4$ and $+1/4$ of the scale
	division
~	The weight is unstable
+T+	A tare value has been acquired
PT	A preset tare value has been entered
W1W2W3	Active weighing range
Ŷ	Locked keyboard
eee	Transmission of the data to the printer serial port underway
₽₽₽₽₽₽₽₽₽₽₽₽	Network communication status: the first 4 pictures identify
لطهالطة فطهالطها	that the communication works well, while the others 2
	identify the disconnected network

4.1.2 Numeric input

		S	creer	า		Function
Safe Ena Pas	ty pas	sword d	~ 6553	54	Ò	Allows to insert a numeric value within the range. X ~ Y: range of the value to insert
	1	2	3	/	Esc	09 : numbers
	4	5	6	*	+/-	.: decimal point
	7	8	9	_	BkSp	+/-: positive or negative sign
	С	0		+	ок	<pre>/ * - +: arithmetic operations</pre>
Es	58	**				C: clears all the value
						BkSp: backspace
						OK: exit saving the value
						Esc: exit without saving the value

4.1.3 Alphanumeric input

Screen										Function
Lin	e 0									Allows to insert a alphanumeric text.
l Esc		•	< ,		/ 1		Clear		SP	$\leftarrow \rightarrow$: scroll left or right
1	2	3	4	5	6	7	8	9	0	Bksn: backsnace
q	v	e	г	t	у	u	i	0	Р	2^F : switches to special characters
а	s	d	f	g	h	j	ĸ	1	-	Shift : changes the character case and switches
²ĵ	z	×	С	v	b	n	m	,		between letter and number modes
Shi	ift	+					→	0	ĸ	OK : exit saving the text
										Esc : exit without saving the text
										NOTE: on the first pressed key all the field is replaced

4.2 Keyboard

Кеу	Function
CLEAR	Press to clear the tare Press for a long time to power on/off the instrument
	Press to tare the gross weight
HELP	Press to switch to the next scale
	Press to zero the scale
Ж ок	Press to switch to the next screen
	Press to insert the preset tare

4.3 Cross light

The standard functioning in the weighing environment is described in the table:

Step	Description	Light
1	The scale is unloaded and the vehicle is not yet positioned on the	
	scale: the green light turns on	
		crosslight
2	The vehicle is now positioned on the scale (when the net weight is	
	over the activation threshold of output 3, see section 5.6): the	
	green light turns off and the red light turns on	crosslight
3	After the execution of the entry or exit weigh, the RED light turns	
	off and the GREEN light turns back on	
		crosslight
4	The vehicle descends from the scale and the GREEN light	
	continues to stay on	
		crosslight
5	It is possible to execute another weigh with the same procedure	
		crosslight

All the functions of the indicator are available from the button in the second screen. The functions are divided into the following groups:

Group	Description
Scale functions	Operations to the weight (zeroing, tare,)
Printout	Print functions management
Generic functions	Generic operations to the indicator (lock keyboard,
	calculator,)
Diagnostic	Functions to check the peripheral units working state
Input texts	Input texts management
Databases	Databases management
AF03 functions	Input/output weighing operations
Totals	Print and reset of the totals
Progressives	Weigh progressives management
Network functions	Network communication management
	(Visible if the network is enabled, Ethernet)

5.1 Zeroing

Step	Description	Screen
1	Press the key	Image: Second
2	A message appears on the display during the zeroing	HI STORE STO

3	If the weight on the scale is included in the percentage (\Box Zeroing percentage with ZERO key), it is zeroed and the $\rightarrow 0 \leftarrow$ indicator turns on		2
		LOAD THE SCALE	2

5.2 Tare

5.2.1 Semiautomatic tare

Step	Description	Screen						
1	Press the key or touch on the weight area to tare the gross weight on the scale	Image: second						
2	A message appears on the display	W1 ko C 1 W1 ko C 1 Tare Tare underway. Please wait ENTRY EXIT PRINT >>						
3	If the weight is almost one division and is stable and valid (not in the underload/overload condition), the gross weight is stored as tare and the $\rightarrow T \leftarrow$ indicator turns on							

5.2.2 Preset tare

Step	Description	Screen
1	Touch on the tare area	Image: state

2	Insert the preset tare value and confirm with the OK key	Preset tare 1 1 Preset tare 1 0 1 2 3 / 1 2 3 / 1 2 3 / 1 2 3 / 2 3 / Esc 3 3 3 3 4 5 6
3	The entered value is subtracted from the gross weight and the PT indicator turns on	PT J1 Kg 35 1 PT J1 Kg 35 1 Kg 100 Kg Kg 100 C RESECUTE THE ENTRY OR EXIT WEIGH ENTRY EXIT PRINT >>

5.2.3 Link a preset tare to a vehicle

It's possible to insert the tare value of a vehicle in the database. By selecting the vehicle the preset tare is activated.

TARE

5.2.4 Tare cancellation

It's possible to cancel the stored tare value in the following ways:

- Zeroing the scale
- By touching the weight area or by pressing the 🔜 when the platform is unloaded;
- By setting the preset tare value to 0;
- By pressing the key.

5.2.5 Locked/unlocked tare

Normally the tare is active until when the cancellation operation (locked tare). One can also choose that the tare value is cancelled automatically when the scale is unloaded (unlocked tare) through Menu \rightarrow Scale functions \rightarrow Lock/Unlock tare function.

5.3 Input texts

Step	Description	Screen
1	Touch on the button to get access to the input texts	+0+ W1 E20589 CUSTOMERS MATERIALS MENU UEHICLES INPUT TEXTS LOAD THE SCALE ENTRY EXIT PRINT >>

2	Touch on the desired text to be changed		ut te 90 L 91 C	OT OPER	ATOR							
3	Insert the content of the text and confirm with the OK button	Text Es ? Q A 2 ² F Shi	c Q Q S Z	F F F F A A A A A A A A A A A A A A A A	F C	? % T G U) ^ Ч Н В	Clo & U J N	ear K M	Вк (О С	Sp) P - X	
	Touch on the ESC button to go back to the main screen	1npu 000 000	55C	DPER	ATOR							

5.4 Databases

5.4.1 Insertion

Step	Description	Screen
1	Touch on the button to get access to the desired database	+0+ UI KS O CUSTOMERS MATERIALS MENU UEHICLES INPUT TEXTS LOAD THE SCALE ENTRY EXIT PRINT >>
2	Select the desired position by touching the element or by touching the NEW button to insert an element in the first empty position	Customer dtb 1/63 0000 Empty 0001 Empty 0002 Empty 0003 Empty 0004 Empty 0005 Empty 0006 Empty 0007 Empty 0007 Empty

	-											
3	Touch the first field to insert the content	Cust Desci Desci Desci	omen ript ript ript	ion ion ion ion	00/ 1 2 3	0499						
			+							DELE	TE	
4	Insert the content of the field and	Desc	ript	tion	1							
	confirm it with the OK button	DIN	_	_		- <u>i</u>	-					
		Es	C	~	>	?	}	C10	ear	Bk	Sp	
		•	6	#	\$	×	^	&	*	(>	
		Q	v	Е	R	т	Y	U	I	0	Р	
		A	s	D	F	G	н	J	к	L	-	
		۶ĥ	z	x	C	v	в	н	м	<	>	
		Shi	ft	÷	F	_	· · ·		+	0	к	
5	Repeat the operation for the desired	Custo Descr	omer ript	000 ion	00/0 1	0499 D 1	INI A	RGEO				
5	Repeat the operation for the desired fields and press the \leftarrow button to	Custo Descr Descr Descr	ipt ipt ipt	000 ion ion ion	00/ 1 2 3	0499 D1	INI A	RGEO				
5	Repeat the operation for the desired fields and press the ← button to confirm or the DELETE button to	Custo Descr Descr Descr	ipt ipt ipt	000 ion ion ion	00/ 1 2 3	0499 D1	INI A	RGEO				
5	Repeat the operation for the desired fields and press the ← button to confirm or the DELETE button to cancel	Custo Descr Descr Descr	vipt vipt vipt	000 ion ion ion	9070 1 2 3	0499 D1	INI A	RGEO				
5	Repeat the operation for the desired fields and press the ← button to confirm or the DELETE button to cancel	Custo Descr Descr Descr	vipt vipt	000 ion ion ion	00/ 1 2 3	0499	INI A	RGEO				
5	Repeat the operation for the desired fields and press the ← button to confirm or the DELETE button to cancel	Cust Descr Descr Descr	vipt vipt vipt	000 ion ion ion	00/ 1 2 3	0499 D1	INI A	RGEO				
5	Repeat the operation for the desired fields and press the ← button to confirm or the DELETE button to cancel	Cust Descr Descr Descr	ipt ipt	000 ion ion	00/(1 2 3	0499 DI	INI A	RGEO		DELE	ΤΕ	
5	Repeat the operation for the desired fields and press the ← button to confirm or the DELETE button to cancel The inserted element appears in the	Cust Descr Descr Descr	oner	000 ion ion	00/0 1 2 3	9499 D J	INI A	RGED		DELE	TE 1763	
5	Repeat the operation for the desired fields and press the ← button to confirm or the DELETE button to cancel The inserted element appears in the	Custo Descr Descr Descr Custo 0000	omer vipt vipt	000 ion ion ion	00/0 1 2 3	9499 D 1	INI A	RGEO		DELE	TE 1/63	
5	Repeat the operation for the desired fields and press the ← button to confirm or the DELETE button to cancel The inserted element appears in the table with the first field value	Custo Descr Descr Descr Custo 0000 0000	oner ipt ipt ipt Dner Dner Dner 2 E	dtb INI Impty Impty	00/0 1 2 3 3	0499 D1	ENI A	RGEO		DELE	TE 1763	
5	Repeat the operation for the desired fields and press the ← button to confirm or the DELETE button to cancel The inserted element appears in the table with the first field value	Custo Descr Descr Descr Custo O000 0000 0000		dtb inn ion ion dtb innt smpty smpty	00/0 1 2 3 3 ARI 9	0499 D1		RGEO		DELE	TE 1/63	
5	Repeat the operation for the desired fields and press the ← button to confirm or the DELETE button to cancel The inserted element appears in the table with the first field value	Custo Descr Descr </td <td>oner `ipt: `ipt: <tr< td=""><td>dtb inn dtb inn dtb inn inn inn</td><td>000/0 1 2 3 3 4R(9 9 9 9 9 9 9</td><td>0499 D 1 U 1 GEO</td><td></td><td>RGEO</td><td></td><td>DELE</td><td>TE 1/63</td><th></th></tr<></td>	oner `ipt: `ipt: <tr< td=""><td>dtb inn dtb inn dtb inn inn inn</td><td>000/0 1 2 3 3 4R(9 9 9 9 9 9 9</td><td>0499 D 1 U 1 GEO</td><td></td><td>RGEO</td><td></td><td>DELE</td><td>TE 1/63</td><th></th></tr<>	dtb inn dtb inn dtb inn inn inn	000/0 1 2 3 3 4R(9 9 9 9 9 9 9	0499 D 1 U 1 GEO		RGEO		DELE	TE 1/63	
5	Repeat the operation for the desired fields and press the ← button to confirm or the DELETE button to cancel The inserted element appears in the table with the first field value	Custo Descr Object Descr	oner ·ipt	dtb ion ion ion dtb INI mpty mpty mpty mpty mpty	00070 1 2 3 3 4 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	0499 D I D D D D D D D D D D D D D D D D D D				DELE	TE 1/63	
5	Repeat the operation for the desired fields and press the ← button to confirm or the DELETE button to cancel The inserted element appears in the table with the first field value	Custo Descri Descri Descri Custo 0000 0000 0000 0000 0000 0000 0000 0	•ipt	dtb ion ion ion ion ion int int ion ion ion ion ion ion ion	000/0 1 2 3 3 4R(9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	0499 0 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		RGEO		DELE	TE 1//63	
5	Repeat the operation for the desired fields and press the ← button to confirm or the DELETE button to cancel The inserted element appears in the table with the first field value	Custo Descr Descr Descr Descr Descr Custo 0000 0000 0000 0000 0000 0000 0000 0000 0000	oner ipt ipt ipt oner 0 D 1 E 2 E 3 E 4 E 5 E 6 E 7 E	dtb inn ion dtb innt inn ion	000/0 1 2 3 3 4 4 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	0499 0 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				DELE	TE 1/63	

5.4.2 Modification

Step	Description	Screen
1	Touch the button to get access to the desired database	+0+ UI EXIT PRINT >>
2	Touch the element or the AZ button to search the element to be updated	Customer dtb 1/63 0000 DINI ARGE0 0001 Empty 0002 Empty 0003 Empty 0004 Empty 0005 Empty 0006 Empty 0006 Empty 0007 Empty 0007 Empty

3	Touch the desired field to be modified		Cust	toner	00	00/0	499						
5	Touch the desired held to be mounted		Desc	ript	ion	1	DI	NI A	RGEO)			
			Desc	ript	ion	2							
			Desc	ript	ion	3							
				+							DELE	TE	
-			Dec	onini		2							
4	Insert the content of the field and		Desi		. 1011	3							
	confirms it with the OK hutton		ITAL										
			E	50	~				610	раг	Bk	SD	
						Ļ	Ļ.	Ļ				<u> </u>	
			•	6	#	\$	×	^	&	*	()	
					-	<u> </u>	i .	<u>.</u>	i				
			ų.	Ľ	<u>د</u>	<u>"</u>	Ľ	Ľ	Ľ	<u>'</u>		Ľ	
			A	s	D	F	G	н	J	к	L	_	
			ÊÊ	z	x	С	V	В	н	M	<	>	
			Shi	ift	+					→	۱ ۱	к	
							_						
	Repeat the operation for the desired		CUS	t omer	. 00	0070	499						
			Desc	cript	100	1	01	NIF	IRGEU		_		
	fields to be updated and press the 🗲		Dest	ript	100	2					_		
	hutton to confirm		Dest	1.Th(TOIL	3	11	HLY					
	button to confirm												
1													
		1		-							DELE	IE I	

5.4.3 Cancellation

Step	Description	Screen
1	Touch the button to get access to the desired database	+0+ W1 Kg CUSTOMERS MATERIALS MENU UEHICLES INPUT TEXTS LOAD THE SCALE ENTRY EXIT PRINT >>
2	Touch the element or the AZ button to search the element to be deleted	Customer dtb 1/63 0000 DINI ARGE0 0001 Empty 0002 Empty 0003 Empty 0004 Empty 0005 Empty 0006 Empty 0006 Empty 0007 Empty 0007 Empty
3	Touch the DELETE button	Customer 0000/0499 Description 1 DINI ARGE0 Description 2 Description 3 Description 3 Description 3

4	Press the button to confirm or not the cancellation	Customer 0000/0499 Description 1 DINL ARGEO Dest Customer 0000/0499 Desc Delete the record? No Yes DELETE
5	The element has been removed from the database	Customer dtb 1/63 0000 Empty 0001 Empty 0002 Empty 0003 Empty 0005 Empty 0006 Empty 0007 Empty 0007 Empty

5.4.4 Selection

Step	Description	Screen
1	Touch the button in the first main screen to get access to the elements present into desired database	40+ U1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 <t< th=""></t<>
2	Touch the desired element to select	Select Customer 0000 DINI ARGEO 0001 MARIO ROSSI Selected Customer: NO Esc DESELECT PAZ NINDEX
3	The description of selected element appears on the display	-0- 0 -0-

5.4.5 Deselection

Step	Description	Screen
1	Touch the button in the first main screen to get access to the elements present into desired database	+0+ #30088 0 1 ks 0 1 15115 ks 0 0 0 ks 0 0 0
2	A message indicates the index of the selected element. Touch the DESELECT button to deselect this element	Select Customer 0000 DINI ARGEO Selected Customer: 0000 Esc DESELECT PAZ PINDEX
3	Press the button to confirm or not the deselection	Select Eustomer 0000 DINJ ARCED Customer 0000/0499 Deselect the record? No Sele Esc DESELECT 0 A. Z 0 INDEX
4	The description of previous selected element disappears on the display	

5.4.6 Insertion and quick selection of the temporary element

Step	Description	Screen
1	Touch the button in the first main	+0+ 020099 0 1 16:16
	screen to get access to the elements	
	present into desired database	
		USHARS
		LOAD THE SCALE
		ENTRY EXIT PRINT >>

2	Touch the element 0000 to insert the temporary element: the previous element will be cleared	Select Customer 0000 DINI ARGEO 0001 MARIO ROSSI Selected Customer: NO Esc DESELECT PAZ DINDEX Customer 0000/0499
	content	Description 1 Description 2 Description 3 Description 3
4	Insert the content of the field and confirm it with the OK button	Description 1ANDESC \sim $>$? $>$ $?$ $>$ $Clear$ $BkSp$? $@$ # $$<>$$$$$$$$$$$$$$$$$$$$$$$$>>$>$>$>$>>$>$
5	Repeat the operation for the desired fields and press the ← button to confirm and select it immediately or the DELETE button to cancel	Customer 0000/0499 Description 1 ANDREA BIANCHI Description 2 Description 3 Description 3 Description 3
6	The description of element 0000 appears on the display	+0+ 0 +0+ 0 ks 0 Ks<

5.4.7 Alphanumeric search

Step	Description	Screen
1	Touch the AZ button in the database update/selection screen	Select Material 1/2 0000 PAPER 0001 GLASS 0002 PLASTIC 0004 WODD 0004 WODD 0006 CERAMIC 0006 CERAMIC 0007 RUBBER Selected Material: NO Esc DESLECT Ø00 AZ Ø1NDEX

2	Insert the first characters of the element to search	Mate IRON PAPE PLAS RUBE	eria) H ER STIC BER	1						↓ Clo Bk	↑ ear Sp	
		q	w	e	г	t	y	u	i	0	р	
		а	s	đ	f	g	h	j	k	1	-	
		²̂F	z	x	С	v	b	n	m	E	5C	
		Shi	Ĺft					12	23	I	ns	
3	The table shows all the elements with the typed characters. Then touch the desired element	CERANIC COPPER						↓ C1: Bk	ear Sp			
		Q	v	E	R	т	Y	U	г	0	Р	
		Ĥ	s	D	F	G	н	J	к	L	-	
						-	-					1
		٤ _Ê	z	×	С	U	в	Ν	м	E	sc	

5.4.8 Search by element index

Step	Description	Screen
1	Touch the INDEX button in the database update/selection screen	Select Material 1/2 0000 PAPER 0001 GLASS 0002 PLASTIC 0003 RON 0004 WODD 0005 COPPER 0006 CERAMIC 0006 CERAMIC 0007 RUBBER Selected Material: NO Esc DESLECT \$\varPhi A2
2	Insert the index of the desired element and confirm. In selection the element is selected and the main screen is displayed. In update the element fields are displayed and can be modified.	Select Haterial 1/2 0 Select record 01 0 04 0 04 1 05 1 06 1 07 2 08 2 01 4 01 5 01 7 01 7 01 7 01 7 02 - 03 - 04 5 05 + 06 + 01 - 02 - 03 - 04 - 05 - 06 + 07 - 08 - 09 - 01 - 02 - 03 - 04 - 05 - 06 - 07 - 08 -

5.5 Printouts

The indicator has 12 print functions, each function has an associated format. When a function has been put into execution through the operation illustrated in the scheme, the associated format is sent to the print serial port.

There are 30 available formats to associate to the print functions. To change the format of the print function use MENU \rightarrow Printout \rightarrow Change the printout format.

Nr.	Print function	Operation	Format
1	SIMPLE PRINTOUT	PRINT in the first main screen	1
		With the approved instrument the net weight must be	
		almost 20 divisions.	
		With the non approved instrument the net weight must be	
		greater than zero.	
2	PARTIAL TOTAL	MENU → Totals → Print partial total	2
3	GENERAL TOTAL	MENU → Totals → Print general total	3
4	GRAND TOTAL	MENU → Totals → Print grand total	4
5	SINGLE WEIGH	ENTRY or EXIT in the first main screen	5
6	ENTRY WEIGH	ENTRY in the first main screen	6
7	EXIT WEIGH	EXIT in the first main screen	7
8	CUSTOMER TOTAL	MENU → Totals → Print customer total	8
9	MATERIAL TOTAL	MENU → Totals → Print material total	9
10	VECHICLE TOTAL	MENU → Totals → Print vehicle total	10
11	START UP		11
12	CALCULATOR RESULT	MENU \rightarrow Generic functions \rightarrow Calculator	12

5.6 Setpoints

To set the setpoints thresholds follow the path MENU \rightarrow Generic functions \rightarrow **Outputs setpoint setting**. A screen like the of Figure 6 is displayed. In the example outputs 2 and 3 are configured with hysteresys

disabled (Digital outputs).

Press one of the two ON values, the usual numeric input screen is displayed. Insert the desired value. At the end press **Esc** to go back to Generic functions menu.

Outputs setpoint setting					
Output	Value ON	Value OFF			
2	400kg				
3	400kg				

Esc

Figure 6. Setpoints thresholds setting

Besides the basic standard weighing function, this EGT-AF03 version allows to keep under control the flow of goods in input and output from a warehouse or a factory, with the possibility of simultaneously managing up to 999 vehicles, also on two scales; these vehicles can be managed as single vehicles or as

vehicles with trailer (Weighing mode).

To guarantee correlation between the two operations, the system foresees two identification methods:

through ID code or through the LICENSE PLATE of the vehicle (Memorization type of input weigh). The implementation of external modules like the PC keyboard, the bar code or badge readers, allows to quicken the weighing operations.

Furthermore, the programme has been made to manage the accumulation and the printing of the weight difference.

The weight difference is automatically accumulated in the instrument totals (PARTIAL, GENERAL, GRAND TOTAL), and the weighs' progressives are automatically increased relative to the previously shown totals.

Furthermore, if a customer/material/vehicle has been enabled, the instrument increases both the totals as well as the weighs' progressive relative to the selected article.

6.1 Input weigh

6.1.1 Single vehicle

To execute the input weigh follow the steps below:

- 1. Position the vehicle on the scale
- 2. Select, if required, the customer / material / vehicle to be linked to the weigh
- 3. Touch the toolbar **ENTRY** button
- 4. The display will show the screen of Figure 7
- 5. If the scale captures the weight correctly it will execute the printout, if configured, and displays the main screen again with the information about the weigh (Figure 9)
- 6. If the scale is unable to capture the weight, because of instability for example, the screen of Figure 8 is displayed
- 7. Touch **Yes** to try to get the weight again, touch **No** to cancel the weigh



6.1.2 Vehicle with trailer

If the scale is configured to execute weighs with trailers the procedure to execute is the same of section 6.1.1but when the first weigh is terminated the message of Figure 10 is displayed. Pressing **Yes** the second weigh is executed, otherwise the main screen is displayed and the scale is ready for the next weigh.



6.2 Output weigh

6.2.1 Single vehicle

- 1. Position the vehicle on the scale
- 2. Select, if required, the customer / material / vehicle to be linked to the weigh
- 3. Touch the toolbar **EXIT** button
- 4. The display will show the screen of Figure 11 if the system is set to work by ID, otherwise the screen of Figure 12 is displayed. The input weighs are displayed in alphabetical order, you can search the desired weigh inserting the first characters of the element
- 5. Once selected the input weigh the display will show the screen of Figure 7, but with "Output weigh" title
- 6. If the scale captures the weight correctly it will execute the printout, if configured, and displays the main screen again with the information about the weigh
- 7. If the scale is unable to capture the weight, because of instability for example, a screen like the one of Figure 8, but with "Output weigh" title, is displayed
- 8. Touch Yes to try to get the weight again, touch No to cancel the weigh

Sel	ect :	input	t we:	igh						
1	2000kg 📷						Ŧ	t		
2	2 3000kg 📷					C10	ear			
<u> </u>							Bk	Sp		
q	w	е	г	t	y	u	i	0	р	
а	5	d	f	g	h	j	ĸ	1	-	
² _Ê	z	×	С	v	b	n	m	Esc		
Shi	ift							REP	EAT	

Figure 11. Input weigh selection by ID

Select input weigh									
VEHI	VEHICLE A 2000kg 🗊					Ŧ	1		
VEHI	CLE	В		3000)kg		F2		
					C16	ear			
	BkSp					Sp			
VEH	_				_				
Q	W	Е	R	т	Y	U	I	0	Р
A	s	D	F	G	н	J	к	L	_
²̂F	z	ХСУВ			N	м	Esc		
Shi	ift							REP	EAT

Figure 12. Input weigh selection by plate

6.2.2 Vehicle with trailer

If the scale is configured to execute weighs with trailers the procedure to execute is the same of section 6.2.1 but when the first weigh is terminated the message of Figure 10 is displayed. Pressing Yes the second weigh is executed, otherwise the main screen is displayed and the scale is ready for the next weigh.

6.2.3 Additional tare function

This function (Add. tare before output weigh) is useful if one wants to calculate the loaded/unloaded weight at the net of a tare added to the weight of the vehicle taken into consideration.

Example: after have executed the input weigh of an empty vehicle the same vehicle is loaded with goods contained in boxes of known weight. Inserting as additional tare the weight of a box times the number of loaded boxes the scale calculates the weight of the goods only.

If the additional tare function is enabled after the step 4 of section 6.2.1 the screen of Figure 13 appears. Insert the additional tare value and confirm with OK. The procedure continues with step 5 of section 6.2.1.

μ.	Add. t	are bef	ore oup	ut weig	h	12
					0	
e a na		0	~ 99999	99		5
k9 Niji	1	2	3	/	Esc	
	4	5	6	*	+/-	
	7	8	9	-	BkSp	
	С	0		+	ок	
E	NTRY	T ER3	P	RINT	>>	

Figure 13. Additional tare insertion

6.2.4 Repetition of an already done weigh

If the user wants to repeat an already done weigh, in the input weigh selection screen (see Figure 11 and Figure 12), insert the complete ID number or license plate and press the **REPEAT** button. The screen of the Figure 14 appears on the display.



Figure 14. Output weigh repetition

6.3 Single weigh

To execute a single input or output weigh insert a preset tare or execute the semi automatic tare function, then continue with the same steps of section 6.1 or 6.2 for input or output weigh respectively. When a single input weigh is executed no one of the available 999 input weighs memories is occupied.

6.4 Error messages

Displayed error message	Type of error	What to do		
HP ACCESS 1 HI Imput weigh Imput weigh <	The weight on the scale is below the minimum allowed one (20 divisions)	Load the scale with a weight greater than 20 divisions then touch Yes to try to weigh again or No to cancel the weigh.		
WI TOPUT Weigh TOPUT Weigh TOPUT Weigh GROSS = 4280kg HERE BACK KS HERE HERE HERE HERE HERE HERE HERE HER	The weight is unstable or the scale is in the under/over load condition	Wait that the weight is stable and between 20 divisions and the maximum scale capacity, then Yes to try to weigh again or No to cancel the weigh.		
W1 30000 1 IP Input weigh 11 IP GROSS= 3000kg 14 KB GROSS= 3000kg <td< th=""><th>The weight hasn't crossed the zero or passed from instability since the last weigh</th><th>Unload the scale then load again and touch Yes to try to weigh again or No to cancel the weigh.</th></td<>	The weight hasn't crossed the zero or passed from instability since the last weigh	Unload the scale then load again and touch Yes to try to weigh again or No to cancel the weigh.		

$\begin{array}{c c} & & & & \\ & & & & \\ & & & & \\ & & & & $	The selected vehicle plate is already stored in the input weighs	Select another vehicle or execute the output weigh
ATZ Interation STONES Dations Dations Uehicle Already Weighed Entry Exit Print		
U1 E3088 1000 1 k9 0 001 1 E31820 -6695 8 K9 -6695 8 K9 -6695 8 CONT 1 E31820 -6695 8 CONT 1 CONT 1 C	Input weigh not allowed because all the 999 input weighs memories are occupied	Execute an output weigh to free up a memory location or delete all the stored input weighs (MENU \rightarrow AF03 functions \rightarrow Reset weighs list)
ENTRY EXIT PRINI >> W1 kg 10000 1 kg 0 LOT 1 1 RESERVENCE -6695 8 RESERVENCE STONES STONES NO OPEN WEIGHS IN INPUT >> ENTRY EXIT PRINT	Output weigh not allowed because the input weighs list is empty	Execute the input weigh first
U1 E30005 1 kg 0 LOT 1 BERHERSEN -9695 10 KY2 EXTRACT XY2 EXTRACT STONES UEHICLE NOT SELECTED ENTRY EXIT PRINT	Input weigh not allowed because the instrument is working in plate mode (Memorization type of input weigh) and a vehicle with a valid plate is not selected	Select a vehicle with a valid plate first
W1 R880 Input weigh Input weigh <	The weight on the scale is less than the minimum threshold or greater than the maximum threshold (MENU → AF03 functions)	Load a vehicle with a weight between minimum and maximum thresholds and press Yes or press No to cancel. Change the thresholds if necessary.

DECLARATION OF CONFORMITY

This device conforms to the essential standards and norms relative to the applicable European regulations. The Declaration of conformity is available in the web site <u>www.diniargeo.com</u>.

WARRANTY

The TWO-YEAR warranty period begins on the day the instrument is delivered. It includes spare parts and labour for repairs at no charge if the INSTRUMENTS ARE RETURNED prepaid to the DEALER'S PLACE OF BUSINESS. Warranty covers all defects NOT attributable to the Customer (so are not included in the warranty, failures resulting from improper use) and NOT caused during transport.

If onsite service is requested (or necessary), for any reason, where the instrument is used, the Customer will pay for all of the service technician's costs: travel time and expenses plus room and board (if any).

The customer pays for shipping costs (both ways), if the instrument is shipped to the DEALER or manufacturer for repair.

The WARRANTY is VOIDED if faults occur due to work done by unauthorized personnel or due to connections to equipment installed by others or incorrect connection to the power supply.

This warranty DOES NOT provide for any compensation for losses or damages, direct or indirect, incurred by the Customer due to complete or partial failure of instruments or systems sold, even during the warranty period.

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