

Adam Equipment

; ? B8 = 5 HCF

fÚÈ ĐÀHẾ ÎÎJGÎI ĐƯÇÃ Ã} ÁŠ FĐỚE * * • ơÁ ĐỆ HĐÁ

V1.21 GK-H scales for Europe V2.29 EC Approved scale V3.41 GK scale for Europe V4.12 GK-H scale for USA V5.41 GK scales for USA

Test Equipment Depot - 800.517.8431 - 99 Washington Street Melrose, MA 02176 - TestEquipmentDepot.com

Easy Reference:	
Model name of the indicator:	
Serial number of the unit:	
Software revision number	
(Displayed when power is first turned on):	
Date of Purchase:	
Name of the supplier and place:	

CONTENTS

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' '' =BGH5 @\$ H=CB	•
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INTRODUCTION

- •ÁThe **GK** indicator provides an accurate, fast and versatile general purpose indicator with parts counting, percent weighing and checkweighing functions.
- •Á The **GK** has LEDs to indicate when a weight is below the low limit, between the limits or above the high limit next to the display. These can work in conjunction with an audible alarm for check weighing as well as LCD showing LO, OK and HI.
- •Á The **GK** is supplied with a RS-232 bi-directional interface and real time clock (RTC).
- •Á The **GK** has a sealed keypad with colour coded membrane switches and a large easy to read liquid crystal type display (LCD) supplied with a backlight.
- •Á Includes automatic zero tracking, semi-automatic & pre-set tare, accumulation facility that allows the weight to be stored and recalled as an accumulated total.
- •Á OIML Approved models, GK-M, do not allow pounds units, have calibration controlled by jumpers or passcodes and other limitations as noted in the manual.



SPECIFICATIONS

	INPUT SECTION		
Load Cells	Up to 4 , 350 ohm load cells		
	Minimum 87 ohms, maximum 1120 ohms		
Connection	6 wires		
	2 excitation, 2 sense, 2 signal		
Excitation	5Vdc		
Sensitivity	0.15uv/d (GK-M, 1.5uv/e)		
Linearity	0.01% FS		
Zero Range	0- 10mv		
Signal range	0-40mv		
ADC Sensitivity	Approximately 0.02 μv/ADC count		
DIGITAL SECTION			
Maximum Range	Typically 1kg – 30000kg		
Divisions	Up to 30,000, (GK –M, 3000 or less)		
Weigh units	kg / g / lb for Europe, Asia, Africa		
	kg/g/lb/oz/lb:oz for USA		
	kg only for GK-M series		
Stabilisation Time	2 Seconds typical		
Operating	-10°C - 40°C		
Temperature	14°F - 104°F		
Power supply	230 VAC 50/60 Hz		
	12V 800ma adaptor for USA verisons		
Battery	Internal rechargeable battery		
Calibration	Automatic External		
Display	6 digits LCD digital displays		
	with capacity tracker and symbols for units		
Indicator Housing	ABS Plastic		
Overall	260 x 170 x 115mm		
Dimensions	10.2" x 6.7" x 4.5"		
(wxdxh)			
Net Weight	1.8 kg / 4 lb		
Applications	Weighing and check weighing		
Functions	Weighing, Check Weighing, Parts counting, check-counting, , Animal Weighing, Accumulating memory,		
Interface	RS-232 bi-directional interface English, German, French, Spanish selectable text		

For approved indicators the input specifications is limited to 1.5 μv per division and the number of divisions is limited to 3000d. Kilograms only.

INSTALLATION

1.1. UNPACKING

This indicator must be connected to a load cell platform and calibrated as necessary to match the platform and user requirements. See Section 15 for set-up information.

The users application and the technical specifications of the platform or load cell will determine the necessary configuration.

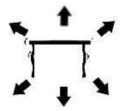
LOCATING



- The scales should not be placed in a location that will reduce the accuracy.
- Avoid extremes of temperature. Do not place in direct sunlight or near air conditioning vents.



- Avoid unsuitable tables. The table or floor must be rigid and not vibrate.
- Avoid unstable power sources. Do not use near large users of electricity such as welding equipment or large motors.



- Do not place near vibrating machinery.
- Avoid high humidity that might cause condensation.
 Avoid direct contact with water. Do not spray or immerse the scales in water.

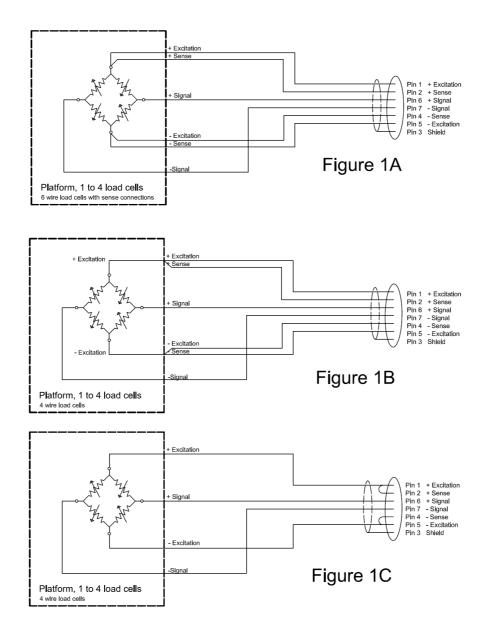


- Avoid air movement such as from fans or opening doors.
 Do not place near open windows or air-conditioning vents.
- Keep the scales clean. Do not stack material on the scales when they are not in use.

CONNECTION

This indicator must be connected to a load cell platform and calibrated as necessary to match the platform and user requirements.

The GK has a connector configured for a 6 wire load cell. Connect the load cells/platform to the indicator as shown below. The cable length should be as short as possible, using a large size wire to minimise errors due to resistance in the leads.

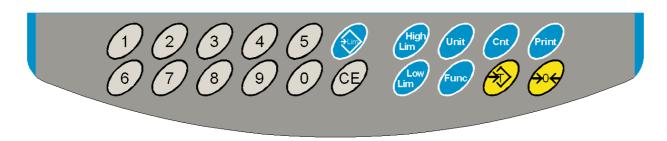


GK-M model must use the 6 wire connection and has certain limitations for wire size and length. Refer to the Approval Test Certificate for details.

Figure 1A shows the connections to a 6 wire load cell. Figure 1B shows a preferred method to attach a 4 wire load cell, using a 6 conductor cable to go from the indicator to the platform or load cell where it connects to the 4 wires from the load cells. The Excitation and sense wires are connected together near the load cell.

For less exacting applications you can connect the excitation to the sense at the connector.

KEYPAD



?9MG ⁻	DF=A5FM:IB7H=CB	G97CB85FMT: I B7H±CB
[Zero]	Sets the zero point for all subsequent weighing. The display shows zero.	Escape from any setting menus
[Tare]	It tares the indicator and stores the current weight in memory as a tare value, subtracts the tare value from the weight and shows the results. This is the net weight.	Accept the set values
[Unit]	This is used to select the weighing units from a preset list of available units.	Allows the weight, unit weight, and count to be seen when parts counting or to change from weight to % in percent weighing

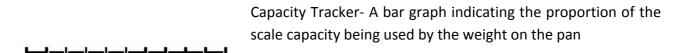
[Low	It sets the limits for check weighing and	None
Limit]	allows setting of either the low limit or the high limit or both.	
[High Limit]		
[→Lim]	It stores and recalls any of 10 preset limits	None
[Func]	This is used to select percent weighing, RS-232 parameters, Operation of the bar graph, RTC settings, User ID and Scale ID.	None
[Count]	Enter Parts Counting	None.
[Print]	It is used to print the results to a PC or printer using the RS-232 interface. It also adds the value to the accumulation memory if the accumulation function is not automatic.	None
[1] to [0] and [CE]	Allow entering numerical values where required, setting of limits, tare value, time and date for example.	

DISPLAY

1.2. SYMBOLS AND INDICATORS

The LCD has unique symbols to indicate the following:

994 <u></u> 09	The scale is Stable
- ^	THE Scale is Stable



Low battery

V5 h" @CÁÁ∖¦Á 📥

The scale is in Percent weighing mode

] & Á

The scale is in Parts counting mode

<**₹C?**Ž**©**C The scale is in Check weighing mode

. The colons ":" are used to separate pounds from ounces and

for the real time clock.

Next to the LCD are a number of LED's that show when the weight is below, within or over the limits during check weighing.

Weight	LED	LCD
below the low limit	Amber	LO
Within the limits	Green	ОК
Above the high limit	Red	HI

NOTE: The LED's can be set by the user to off, bar, spot or segment mode. See **"F3"** in section 13.1

The LED can be set to display as a bar, increasing from Low to OK to High, a single spot increasing from Low, OK to High, or as a single bar that changes colour as the weight progresses from Low to OK to High.

CALIBRATION COUNTER FOR APPROVED INDICATORS

With approved (GK-M Model) indicators we have the ability to control access to the calibration or metrology parameters using a passcode to limit access. The requirements for doing this stipulate the code should be apparent and recorded in a suitable location on the indicator.

In this way if the record of the Calibration or Parameter counters do not agree with recorded settings the responsible person inspecting the indicator can take appropriate action.

The Counters are incremented any time the calibration section or the Factory parameters section have been modified.

At power on, the display will show the current software revision number followed by the message of the Calibration Count "IALINT" then a number i.e. "123". The number from the counter memory. Then the Parameter Counter message of "PATINT" and probably a different number, i.e. "234". The counters cannot be reset to 0, they will increment until the display can no longer hold the values. (1 to 999999). It is expected we will never have more than 1 million calibrations in the life of the machine.

Each display is held for 1-2 seconds.

The indicator will then continue to do the display test and go to normal weighing.

If during the time the counting displays are shown, the user presses the **[Tare]** key, the user will be given a message to enter the passcode necessary to calibrate the indicator, "P - - - - " Enter the code "P0000" to Enter calibration or "P1000" to enter the parameters, followed by pressing the **[Tare]** key.

The Calibration access will allow user calibration (See section 15.1) and the parameter code will allow access to the following parameters. (see section 15.2).

"F4 Int" Á	Initial Zero Range
"F5 rEZ"	Re-Zero range
"F6 SCS"	Successive Tare Enable
"F7 Cnt"	Display ADC counts
"F8 Zem"	Zero Mode
"F9 Lvd"	Low voltage detection

Other parameters must be changed using the service parameters as described in section 15.2

BATTERY

- The indicators can be operated from the rechargeable battery, if desired. The battery life is determined by the number and impendence of the load cells connected. With a single load cell and backlight disabled the life is approximately 70 hours before needing to be recharged.
- When the battery needs charging a symbol on the display will turn on. The battery should be charged when the symbol is on. The indicator will still operate for a period of time after which it will automatically switch off to protect the battery.
- To charge the battery, simply plug into the mains power supply. The indicator does not need to be turned on.
- The battery should be charged for 12 hours for full capacity.
- To the right of the display is a LED to indicate the status of battery charging. When the indicator is plugged into the mains power the internal battery will be charged. If the LED is green the battery is being charged. If it is red it is nearly discharged and yellow indicates the battery is increasing the charge level. Continue to charge overnight for a complete re-charge.

BACKLIGHT

The backlight for the LCD can be set by the user to always off, always on or automatic (on only when the indicator is in use or a key is pressed). See setting of the parameter "**\$2 bl**" in section 13.3.

AUTO POWER OFF

The auto power off can be set by the user to disable the feature or to a pre-set time interval. See setting of the parameter **"\$3 AOF"** in section 13.3.

OPERATION

1.3. ZEROING

• You can press the **[Zero]** key at any time to set the zero point from which all other weighing and counting is measured. This will usually be necessary when the platform is empty. When the zero point is obtained the display will show the zero indicator.



• The indicator has an automatic re-zeroing function to account for minor drifting or accumulation of material on a connected platform. However you may need to press [Zero] to re-zero the indicator if small amount of weight is still shown when the platform is empty.

1.4. TARING

1.4.1 MANUAL TARE

- Zero the indicator by pressing [Zero]. The zero indicator will be on. Place a container on the pan and its weight will be displayed.
- Press [Tare] when the reading is stable. The weight that was displayed is stored as the tare value and it is subtracted from the display, leaving zero on the display. The stable and Net indicator will be on.



As a product is added only the weight of the product will be shown. The
indicator could be tared a second time if another type of product was to
be added to the first one. Again only the weight that is added after
taring will be displayed.



NOTE:

When the container is removed a negative value will be shown. If the indicator was tared just before removing the container, this value is the gross weight of the container plus all products which were removed. The zero indicator will also be on as the platform is back to the same condition it was when [Zero] was pressed last.

If the value to be tared is very large the scale may not allow you to tare the value as the negative value will not fit on the display area. In this case the scale will beep twice when the **[Tare]** key is pressed and then return to normal weighing without setting tare.

Press [Tare] or [Zero] to remove the tare value and display zero. The Net indicator will disappear.

1.4.2 PRESET TARE (NOT AVAILABLE ON GK-M APPROVED INDICATORS)

When the indicator is at zero with no weight on the platform it is possible to enter a preset tare.

- Zero the indicator by pressing **[Zero]**. The zero indicator will be on.
- Enter a value using the numeric keys.
- Press [Tare] to tare the indicator. The value that was entered is stored as the tare value and it is subtracted from the display, leaving a negative number on the display.

1.5. WEIGHING

To determine the weight of a sample, first tare an empty container if used, then place the sample in the container. The display will show the weight and the unit of weight currently in use.



To change the weighing unit press the **[Unit]** key. The only alternative weighing unit is pounds. This can be enabled by the user in the parameters section. See section 13.3.

1.6. PARTS COUNTING

The indicator can be used to count parts based on the average weight of a sample weighed. When more parts are added the total number of parts are displayed.

• If a container is to be used, place this container on the platform before entering parts counting and press [Tare].



• Press [Cnt] to enter the Parts Counting mode. The display will show the last sample size used. For example, "10 Pcs".



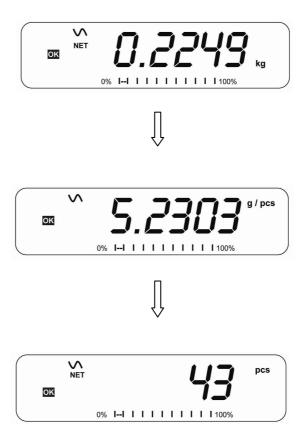
• Either place 10 parts on the platform for determining the average piece weight or use a different number of parts. For example, place 20 parts on the platform, press **[CE]** to clear the last values and then enter the value 20 using the numeric keypad.



- Press [Cnt] to weigh the samples and determine an average piece weight.
- If the parts are too light to measure accurately, the count may become faulty. It is suggested that the samples to be weighed should each weigh more than the resolution of the indicator.
- After the sample has been weighed the indicator will count any other parts added by applying the average piece weight to the weight of the parts to be counted.



- The [Tare] key works normally during this time, so it is possible to tare the display with a container on the platform or to enter a preset tare value as described in section 10.2.2.
- During parts counting the display can be changed to show the net weight, unit weight and number of parts by each time pressing the [Func] key.



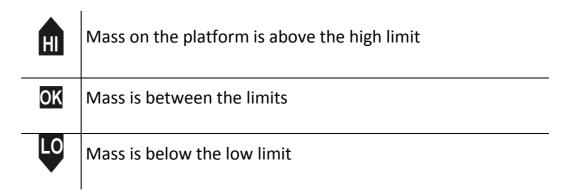
- To count a different sample quantity, press the **[Count]** key. The display will show the last used sample size. Either use this sample size with a different part or enter a new sample size as above.
- To return to weighing, press [Unit] when "XX pcs" is displayed.

1.7. CHECK-WEIGHING

Check-weighing is a procedure to display an indicator or sound an alarm when the weight on the platform meets or exceeds the values stored in the memory. The memory holds values for a high limit and a low limit. Either or both the limits can be set by the user.

NOTE:

1. The alarm and the LED bargraph can each be set to OFF (See section 13.1). The LCD display will indicate whenever the weight is within or exceeds the limits by showing 'OK', 'HI' or 'LO'.



- 2. The limits can be locked by the manager. A Limit Password must be used to change the limits or recall other limits from memory.
- 3. If Limit Password is enabled then enter the password which will allow you to change the limits or the operation of the beeper or bargraph.

1.7.1 SETTING UP WHILE WEIGHING

- Press the **[Low Limit]** key. It will show the current low limit. The **"L0"** symbol will appear on the display.
- Press the [CE] key to clear the old value and then enter the new low limit using the numeric keys. The decimal point is fixed at the position that is used for the current weighing unit. When the desired value is shown press [Tare] to accept the value. If you want to reset the value to zero, press [CE] to clear the value.
- The limits are displayed in the weighing unit in use.
- To set the high limit press [High Limit], the display will show the high limit, the "HI" symbol will be on to the left side of the display. Set the high limit in the same way the low limit was set.
- Pressing the **[Tare]** key to enter the value will return the indicator to weighing, with the Check-weighing function enabled.

1.7.2 SETTING UP WHILE PARTS COUNTING OR % WEIGHING

During parts counting and percent weighing the limits are set in the same way as above. The limits are displayed in pcs or %.

See Section 10.4 for the description of parts counting and Section 10.7 for percent weighing.

NOTE:

- 1. Vhe weight must be greater than 20 scale divisions for the checkweighing to operate.
- 2. To disable the check weighing function, enter zero into both the limits as described above. When the current limits are shown, press [CE] to clear the settings, then press [Tare] to store the zero values.

1.8. LIMITS STORING AND RECALLING

The indicator can store up to 10 sets of high and low limits in memory along with the weighing units in use (including pcs for parts counting and % for percent weighing) as well as settings for the beeper and bar graph.

During Check weighing the current limits can be stored or previously stored units can be recalled.













Press the [>Lim] key. If you are already in the check weighing mode the display will ask if you wish to store the current limits by showing "StOrE" or recall another set of limits by showing "TECALL". The [>Lim] key can be used to toggle between "StOrE" and "TECALL".

⊕you want to store the limits, when "Store" is displayed press the [Tare] key. The display shows "St". Enter a number corresponding to the desired memory location (0 to 9). "St X" will be displayed for 2 seconds indicating the location X where the current limits, weighing units and settings for the beeper and bar graph are stored. The indicator will continue to work with the current settings as active.

If you wish to recall any of the pre-stored limits, press [Tare] when "rECALL" is displayed. The display shows "rEC". Enter the number corresponding to the desired memory location (0 to 9) to be recalled. "rEC X" will be displayed for 2 seconds indicating the values stored in the location "X" is being recalled. The indicator will change to the recalled limits, weighing units and settings for the beeper and bar graph.

NOTE:

- 1. If the recalled limit is for parts counting, the display will show the last sample value used, ready for a new sample to be counted.
- 2. If the recalled unit is a percent weighing limit, the display will show the last sample value used, ready for a new sample to be weighed.

HÈIf the memory location was empty the indicator will return to weighing.

1.9. PERCENT WEIGHING

The indicator can be set to perform percent weighing. See Section 13.1.

The indicator will use a mass on the platform as the 100% reference weight. If the platform is empty (or the indicator is tared) then the user can input a reference weight using the keypad.

- If using a reference weight (or object) as your 100% reference, add the weight to the to the platform.
- Press [Func]. The first option is "FUNC 1", press the [Func] key 3 more times to display "FUNC 4".



• Press the [Tare] key. "F4 PCt" will be displayed.



• Press [Tare] again to enter percent weighing. The indicator will set the sample mass on the platform as 100% reference weight.

NOTE: If there is no reference weight on the pan and percent weighing function is entered, pressing **[Tare]** again will return the indicator to normal weighing.



 Remove the sample weight. Then any other weight placed on the platform will be displayed as a percentage of the original sample. For example, if 3500g is placed on the platform and percent weighing is selected, the display will show 100.00%. Remove the 3500g weight and place a 3000g weight. The display will show 85.7% as 3000g is 85.7% of 3500g.



- The number of decimal points will depend on the weight used. A smaller weight will show only "100%" while a larger weight might show "100.00%".
- If the indicator was showing zero weight before entering this function, then the user must manually enter the weight to be set as 100%. When "F4 PCT" is displayed, enter the weight to be used for the 100% reference, then press [Tare] to accept the reference weight. The display will show "0.00".

- If the indicator shows "XX.XX%", which is the last weight used as a reference, press [CE] to clear and use the numeric keypad to enter a new value. Press [Tare] to accept the new reference weight.
- The weight entered must be greater than 50 scale divisions.
- Press [Unit] to return to normal weighing.

NOTE:

The display may jump by large numbers unexpectedly if small weights are used to set as 100% reference. The indicator checks if the weight is too small and will show Error 7.

1.10. ANIMAL (DYNAMIC) WEIGHING

The indicator can be set to animal (dynamic) weighing for weighing any items that are unstable or may move. See Section 13.4.

The indicator uses a special filter to minimise the effects of any movement on the platform.

• Press [Func]. The first option is "FUNC 1", press the [Func] key 3 more times to display "Func 4".



• Press the **[Tare]** key. **"F4 PCt"** will be displayed. Press the **[Func]** key to advance to the second function, **"F4 AnL"**, Animal weighing.



- Press [Tare] to enter the animal weighing function.
- To use the Animal Weighing function it is necessary to set the amount of filtering required for the animals to be weighed. More active animals will require a higher level of filtering to give a stable result. The display will show "Filt X" where x is a value from 1 to 5. The higher the value the greater the amount of filter will be. To increment the value shown press the [Func] key then press the [Tare] key to accept it.
- The display will flash "Ani " 2 times then show the current weight, 0.00. The indicator is now ready to weigh.

1.10.1 OF MIMAL WEIGHING PROCEDURE

- With the platform empty the display will show zero weight.. Place containers
 or blankets onto the platform and press the [Tare] key to zero the display.
 The indicator may go into the animal weighing procedure when the items are
 placed on the platform but will return to showing zero when the [Tare] key is
- Place the animal to be weighed on the platform.
- When a stable reading is found, the display will show this value, and the display will be locked until the [Unit] key is pressed. The display will show the "Hold" symbol while the display is locked. Remove the animal, the display will hold the weight value.
- Press the **[Unit]** key to unlock the display. The display will flash "Cpk" twice, and be ready for the next animal.
- To weigh a second animal press the [Tare] key if necessary to zero the display, and place the next animal on the platform. It is also possible to simply place the next animal on the scale without clearing the last value first. The indicator will detect the new weight and hold it as before.
- The indicator will remain in the animal weighing mode until the [Zero] key is pressed. Then it will return to normal weighing.

1.11. ACCUMULATED TOTAL

The indicator can be set to accumulate when a weight is added to the platform automatically or manually by pressing [Print]. See Section 13.2.

NOTE:

- 1. The accumulation function is available only during weighing. It is disabled during parts counting or percent weighing.
- 2. The accumulated weights will be stored in either kg or lb, depending upon the weighing unit in use.
- 3. If at any time the weighing units are changed, the accumulated data will be lost.

1.11.1 MANUAL ACCUMULATION

When the indicator is set to manual accumulation, the weight displayed will be stored in the memory when the **[Print]** key is pressed and the weight is stable.

• Remove the weight and press [**Print**] when the indicator is at zero. The display will show **"ACC 1"** and then the weight in memory for 2 seconds before returning to normal. The weight can be output to a printer or PC using the RS-232 interface.





• When the indicator is at zero place a second weight on the platform. When stable press [Print] to accumulate the weight. The display will show "ACC 2" for 2 seconds and then show the new total.





- Continue until all weights have been added. This can continue for up to 99 entries until the capacity of display is exceeded.
- To view the total in memory press the [Print] key when the indicator is at zero. The display will show the total number of accumulation "ACC XX" and the total weight before returning to zero.
- To print the total, press [Print] to recall and then immediately press [Print] the second time to print the results.
- To erase the memory, press [Print] to view the total and then immediately press [CE] to clear the memory.

1.11.2 AUTOMATIC ACCUMULATION

When the indicator has been set to Automatic Accumulation the value is stored in memory automatically.

- Place a weight on the platform. The beeper will sound when the display is stable indicating the value is accepted. Remove the weight.
- The display will show "ACC 1" and then the total in the memory before it returns to zero. Adding a 2nd weight will repeat the process.
- While the weight is on the platform, press the [Print] key to view the values- first the accumulation number "ACC x" and then the total will be shown.

NOTE:

- 1. The indicator will not show the value when a weight is removed.
- 2. In all cases the display must return to zero or a negative number, before another sample can be added to the memory.
- 3. More products can be added and [Print] be pressed again for up to 99 entries until the capacity of display is exceeded.

RS-232 SPECIFICATION

The GK indicator is supplied with bi-directional RS-232 interface as standard. The indicator when connected to a printer or computer outputs the weight with the selected weighing unit through the RS-232 interface.

Default Specifications:

RS-232 output of weighing data

ASCII code

9600 Baud (user selectable)

8 data bits

No Parity

Connector:

9 pin d-sub miniature socket

Pin 3 Output

Pin 2 Input

Pin 5 Signal Ground

The indicator can be set to print text in English, French, German or Spanish. See the RS-232 parameters section for details.

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Data Format-Normal Output:

Only weight value along with the weighing unit is printed. If Percent weighing is used then % is shown in place of weighing units.

<cr><lf><cr><lf> definition of the cortex of the corte</lf></cr></lf></cr>	12/09/2006	<cr><lf></lf></cr>	
Time <cr><lf></lf></cr>	14:56:27		
Scale ID User ID <cr><lf></lf></cr>	123456 234567	<cr><lf><cr><lf></lf></cr></lf></cr>	If ID is zero, it is left blank
Net Wt <cr><lf><cr><lf><cr><lf><cr><lf><cr><lf><cr><lf><cr><lf><</lf></cr></lf></cr></lf></cr></lf></cr></lf></cr></lf></cr></lf></cr>	1.234 kg	<cr><lf></lf></cr>	Net Wt. (or Gross Wt.)

Data Format-Parts Counting Output:

Weight, Unit weight and number of parts are printed.

<cr><lf> <cr><lf> Date</lf></cr></lf></cr>	12/09/2006	<cr>< f></cr>	
Time <cr><lf></lf></cr>	14:56:27		
Scale ID	123456	<cr><lf></lf></cr>	
User ID <cr><lf></lf></cr>	234567	<cr><lf></lf></cr>	
Net Wt.	1.234 kg	<cr><lf></lf></cr>	Net Wt. (or Gross Wt.)
Unit Wt.	123 g	<cr><lf> g</lf></cr>	for metric and lb for pounds
PCS <cr><lf> <cr><lf></lf></cr></lf></cr>	10 pcs	<cr><lf></lf></cr>	

Data Format- Memory Recall Output:

```
<cr><lf>
             12/09/2006 <cr><lf>
Date
Time
             14:56:27 <cr><lf>
<cr><lf>
Scale ID 123456 <cr><lf>
            234567 <cr><lf>
User ID
<cr><lf>
----<cr><lf>
TOTAL
              5
No.
                     <cr><lf>
           1.234 kg <cr><lf>
Wt.
PCS
             10 pcs <cr><lf>
<cr><lf>
----<cr><lf>
<cr><lf>
```

Data Format- Continuous Output- Normal weighing:

8 UHJ: cfa UH 7 cbh]bi ci g'Ci hdi H'DUfhg'7 ci bh]b[.'

```
      Net
      1.234 kg
      <cr>
        cr><lf>
      Net Weight (or Gross wt.)

      U.W.
      123 g
      <cr>
        cr><lf>
      kg and g for metric and Lb for pounds

      PCS
      10 pcs
      <cr>
        <cr><lf>

      <cr><lf>
```

ŠŒÓÒŠÁMÁU~ÁÁ; ā '\^Á; ^Á; `d] ` cÁ Øã; ^åÁ; ^Á; ã a c@ÉA; æå; ā *Á.^¦[•Ás; ^Á;] æ\$.^•ÈÁ

1.234 Kg<lf><cr>

8 UHJ: cfa UHBcfa U˙Ci hdi hÁ

TOTAL No. 5, 1.234 Kg,

10 pcs<lf><cr>

'8 UHJ: cfa UH'A Ya cfmF YWJ`'Df]bh'

NOTE:

- 1. The accumulated total will not be sent to the RS-232 when the continuous print is turned on.
- 2. The continuous print will only be for the current weight and the display data.
- 3. In other languages the format is the same but the text will be in the language selected.
- 4. When the scale is in the Lb:oz weighing unit the RS-232 output will only show pounds. 10lb:8oz will be printed as 10.5 lb.

Description	ENGLISH	FRENCH	GERMAN	SPANISH
Net weight	Net Wt.	Pds Net	Net-Gew	Pso Net
Weight per unit counted	Unit Wt.	Pds unit	Gew/Einh	Pso/Unid
Number of items counted	Pcs	Pcs	Stck.	Piezas
Number of weighing added to subtotals	No.	Nb.	Anzhi	Num.
Total weight and count printed	Total	Total	Gesamt	Total
Print date	Date	Date	Datum	Fecha
Print time	Time	Heure	Zeit	Hora
Scale ID number	Scale ID	Bal ID	Waagen ID	Bal ID
User ID Number	User ID	Util ID	Nutzer ID	Usuario ID

1.12. INPUT COMMANDS FORMAT

The indicator can be controlled with the following commands. Press the **[Enter]** key of the PC after each command.

H0W20`Z Tares the indicator to display the net weight. This is the same as pressing [Tare].

NOW20`Z Sets the zero point for all subsequent weighing. The display shows zero.

DOW20`Z Prints the results to a PC or printer using the RS-232 interface. It also adds the value to the accumulation memory if the accumulation function is not set to automatic.

CALIBRATION

- The GK indicator can be calibrated using kilogram weights or using pounds weights, depending on the weighing unit selected at the time of calibration.
- To start the calibration, either get into the calibration section through the Indicator Settings (**"FUNC 3"** see Section 13.3) or turn the indicator off and switch on again and then press [Tare] during the self-test. Enter code number 0000 and press [Tare]. This will take you directly to the calibration section.
- The display will show "UnLoAd"
- Remove all weight from the platform and then press the [Tare] key when the display is stable. After the Zero point is set, the display will show "Ld xx". Place the suggested calibration mass on the platform. It is best to use a weight close to the full capacity of the indicator. If the mass is different from the displayed value, enter the value of the mass in whole numbers. The kg or the lb symbol will be on to show the active unit.
- Press the **[Tare]** key when the stable indicator is on.
- The indicator will calibrate to the mass. When complete, it will display "PASS" and then either display "S8 CAL" (if entered the calibration section through the Indicator Settings as per section 13.3) or return to normal weighing (if entered directly). Remove the calibration mass.
- If an error message "FAIL H" or "FAIL L" is shown, re-check the calibration and repeat. If the error cannot be corrected contact your supplier.

PARAMETER SETTINGS

Pressing the **[Func]** key allows the user to access the parameters for customising the indicator. The parameters are split into 4 groups-

- 1. Check weighing parameters,
- 2. RS-232 parameters
- 3. Indicator parameters
- 4. Percent and Animal Weighing Functions
 - When **[Func]** is pressed, display will first show **"FUNC 1"** for Check weighing parameters.
 - Enter [2] for RS-232 parameters or [3] for Indicator parameters or [4] for percent weighing and animal weighing, or press the [Func] key to advance through the groups "FUNC 1", "FUNC 2", "FUNC 3" and "FUNC 4". Press [Tare] to enter the desired group of parameters.
 - Press [Zero] to return to the group "FUNC 1". If you press [Zero] again, the indicator will exit the User Parameter section and return to normal weighing.

1.13. CHECK WEIGHING PARAMETERS

- Shortcut to enter this group is to press and hold the **[Unit]** key for 4 seconds. The display will go directly to **"FUNC 1"**.
- Press [Tare] to enter the group.
- Press [Func] to scroll through the parameters and press [Tare] to enter a parameter setting.

- Press [Func] to view the options for setting.
- Press [Tare] to confirm the change and then advance to the next parameter by pressing the [Func] key.

This group of parameters-

- enables or disables the percent weighing
- sets the lock for re-setting the check weighing limits
- enables or disables the check weighing LED indicator
- enables or disables the check weighing alarm
- sets the User Password for check weighing
 enables or disables the negative check weighing

Parameter	Description	Options	Default setting
F1 LLk	This parameter prevents the normal user from changing the limits with the help of a Limit Lock.	With LLK set to Off (oFF), the user is allowed to change limits at any time. With LLK set to Preset (PSt), the user is allowed to use one of the preset limits only.	OFF

F2 LEd	This parameter sets the LED indicator to off or on and the LED type (whether LED's are on in the form of a continuous bar or a spot LED or a segment of colour).	bArÁWÁZÁBar typeÁ SpotÁGÁSpot typeÁ SegÁGÁSGEgmentÁ OFFÁWÁZÁOffÁ	bAr Á
F3 bep	This parameter sets the Beeper to off or on. If set to on, the beeper can further be set to sound when the weighing result is within or outside the check-weighing limits.	bP off ÆFOff Á bP inLÆFOvithin limits Á bP otLÆFOutside limits (>20d)	bP inL Á
F4 CPS	This parameter allows setting of a new Check weighing password, must be entered twice when asked. When complete, it will display "done". Á	To be entered manually.	0000
F5 nCK	This parameter enables negative check weighing function with ability to do negative tare.	on off	on

NOTE:

- 1. The Check weighing password is separate from the indicator password, see section 13.3.
- 2. If the password is other than 0000, user must enter the password to gain access to "F3 LLK", "F4 LEd", "F5 DEP", "F6 CPS" and "F7 nCK".

1.14. RS-232 PARAMETERS

- Shortcut to enter this group is to press and hold the [**Print**] key for 4 seconds. The display will go directly to **"C1 ON"**.
- Press [Func] to view the list of parameters.
- Press [Tare] to enter a parameter. Press [Func] to view the options for the parameter settings.
- Press [Tare] to confirm the change and then advance to the next parameter by pressing the [Func] key.
- Press [Zero] to return to the group "FUNG 2". If you press [Zero] again, the indicator will exit the User Parameter section and return to weighing.

This group of parameters can be set by the user for setting the language, baud rate, printing mode, etc. The user can also set a Scale ID number and a User ID number.

Parameter	Description	Options	Default Values or setting
C1 on	Enable or disable the RS- 232 interface	Prt on Prt offÁ	Prt on
C2 bd	Baud Rate	600 1200 2400 4800 9600Á 19200Á	9600

C3 PrM	Printing Mode- Manual as soon as stable,	ma sta	mA Sta Á
	Manual as soon as the key is pressed stable or not,	*mA Any	
	Automatic As soon as stable	*Au StA	
	Automatic when weight is removed	Au End	
	Continuous only when stable	*Ct StA	
	Continuous at any time,	*Ct Any	
	stable or not	E>[cÁsa) Á[]cá[}Á[} ÒÔÁsa]]¦[ç^åÁn&saa ^∙	
C3 PrM	Printing Mode- Manual,	mAn ÉÁ	mAnÁ
	Continuous or Automatic	Cont Goot on EC approved scales)	
		AUto Á	
C4 Aon	Enable or disable the	AC on Á	AC onÁ
	Accumulation	AC offÁ	
C5 Ln	Select Language	EnGLi (English)	EnGLi
		FrEnCH (French)	
		GErmAn (German)	
		SPAn (Spanish)	
C6 Uld	Set User ID	To be entered manually	000000
C7 Sid	Set Scale ID	To be entered manually	000000
C8 Lab	Set the print format to be a label as shown (ON) or a single line (Off)	Lab On Lab Off	Lab On

The indicator will perform the following, depending on the Accumulation and Print Settings:

ACCUMULATION SETTINGS PRINT SETTINGS	AC on	AC Off
mA StA	Accumulate and Print as soon as the [Print] key is pressed. If the [Print] key is pressed a second time print only, accumulation will only occur if scale returns to zero first.	Print as soon as the [Print] key is pressed, and the scale is stable. Do not accumulate.
mA Any Not available on approved indicators	Accumulate and Print as soon as the [Print] key is pressed. Even if the scale is unstable. If the [Print] key is pressed a second time print only, accumulation will only occur if scale returns to zero first.	Print as soon as the [Print] key is pressed, Stable or not. Do not accumulate.
Au StA Not available on approved indicators	Accumulate and print automatically as soon as scale becomes stable. If the scale goes unstable and then stable again print the new stable value. But do not add to Accumulation. If the [Print] key is pressed at any time the scale is stable print only. Accumulation will only occur if scale returns to zero first.	Print as soon as the scale is stable. If the scale goes unstable and then stable again print the new stable value. If the [Print] key is pressed print again. Do not accumulate.

Au End [.]	Accumulate and print when the scale has reached stability after the weight is removed. If the [Print] key is pressed it is ignored.	Print after the scale is stable and the weight has been removed. If the [Print] key is pressed it is ignored. Do not accumulate.
Ct StA ⁻	Print continuously if the scale is stable.	Print continuously if the scale is stable.
Þ[oÁ æçæafæà ^Á [}Á æ}]¦[ç^åÆsåææ[¦•Á	Accumulate immediately when [Print] key is pressed if the scale is stable.	Do not accumulate.
Ct Any Þ[oÁ æçæájææì ^Á [}Á æj]¦[ç^åÁsjåå&ææ[¦•Á	Print continuously, stable or not. Accumulate when the [Print] key is pressed stable or not.	Print continuously stable or not. Do not accumulate.

Note: Manual Printing is allowed at zero only when the scale is stable. If set to Auto the scale will not automatically print when it returns to zero.

On EC approved scales printing is not allowed less than 20 divisions.

Accumulation is only allowed if the weight is greater than 20 divisions.

1.15. INDICATOR PARAMETERS

- Shortcut to enter this group is to press and hold the **[Count]** Key for 4 seconds. The display will go directly to "S1 Un".
- Press [Func] to view the list of parameters.
- Press [Tare] to enter a parameter. Press [Func] to view the options for the parameter settings.
- Press [Tare] to confirm the change and then advance to the next parameter by pressing the [Func] key.
- Press [Zero] to return to the group "FUNG 3". If you press [Zero] again, the indicator will exit the User Parameter section and return to normal weighing.

This group of parameters are used to control the operation of the indicator.

Parameter	Description	Options	Default setting
S1 Un	Enable or disable weighing units, Not all units are available for all scales settings.	kg g Ib oz Ib:ozÁ	kg
	Only USA scales have imperial unit.		
S2 bL	Backlight set to always on, always off or automatic on whenever a weight is placed or a key is pressed	EL OFFÁ EL ONÁ EL AU	EL AUÁ

S3 Aof	Auto Off- Disable or set time increment to turn off the indicator	SLP 0 SLP 1 SLP 5 SLP 10Á	SLP 0
S4 dt	Set Time and Date format and settings	 O) c^¦Ás@ Ásā[^Á { æ) ĕæ ^Á O) c^¦Ás@ Ásaæ^Á { æ) ĕæ ^ 	00:00:00 mm:dd:yyÁ
S5 diS	Display all weights or only when stable	ALL StAbÁ	ALL
S6 Fi	Filter setting to slow, normal or fast	SLOW nor FAStÁ	nor
S7 SPS	Scale Password- If it is anything other than 0000 then the user must enter the password to gain access to any of the indicator parameter settings. Must be entered twice when asked. When complete, it will display "done".	PI	0000
S8 CAL	Calibration	Calibrate the indicator to a platform. See Section 10.0	Ë

1.16. PERCENT WEIGHING AND ANIMAL WEIGHING

See section 10.7 and 10.8 for details of these special weighing modes.

Parameter Description Options Default

setting

F4 PCt This parameter allows the None Enabled

user to enter the Percent always weighing Function. See

Section 10.7.

F4 Anl Enter the Animal Weighing Set the filter value. Enabled

mode of operation, See Always

section 10.8

ERROR MESSAGES

During the initial power-on testing or during operation, the indicator may show an error message. The meaning of the error messages is described below.

If an error message is shown, repeat the step that caused the message. If the error message is still shown then contact your dealer for support.

ERROR CODE	DESCRIPTION	POSSIBLE CAUSES
Err 1	Time input Error	Invalid time entry such as "268970" for the time format "H-m-S".
Err 2	Date input Error	34th day of a month is an invalid entry.
Err 4	Initial Zero is greater than allowed (4% of maximum capacity) when power is turned on or when the [Zero/Enter] key is pressed.	Weight on the platform when turning the indicator on. Excessive weight on the platform when zeroing the indicator. Platform is not installed. Improper calibration of the indicator. Damaged load cell. Damaged Electronics.
Err 6	A/D count is not correct when turning the indicator on.	Load cell is damaged. Electronics is damaged.
Err 7	Percent input error	Percent function is entered with no reference mass on the platform.
Err 8	High limit input error	Low limit is set first, then the high limit is set lower than the low limit and high limit not equal to zero.

Err 9	Low limit input error	High limit is set first, then the low limit is set higher than the high limit and low limit not equal to zero.
FAIL H [¦	Calibration error	Improper calibration (should be within +10% of the factory calibration). The old calibration data will be retained until the calibration process is complete.

SERVICE PARAMETERS

1.17. ACCESS TO PARAMETERS

APPROVED INDICATORS

Access to the indicator parameters and calibration is controlled in all approved indicators either by limiting access to be after the Calibration Jumper is put on the PCB, location J1, pins 1 & 2. In this case the display will show the passcode request screen, "P----". To continue enter a passcode as described below.

Or if the Calibration and Parameters have been enabled (see 15.2.10) the user must enter the correct password to have access. See Section 6.0.

Entering passcode 0000 will allow calibration as shown in 15.1, entering 1000 will allow access to a limited set of parameters as described in section 6.2 and entering the passcode 2006 will allow access to all parameters as shown in section 15.2.

NON-APPROVED INDICATORS

Non EC Approved indicators will allow entry to the parameters if the Tare key is pressed during the power on cycle. The passwords work as above.

15.1 USING "0000" TO ENTER THE CALIBRATION PARAMETER

"Pn"	When "Pn" is displayed.
	Enter "0 0 0 0" and press [Tare]
"UnLoAd "	Empty the platform by removing the load, if there is any and press [Tare]
"LoAd" "6" "KiLoS"	Load the requested calibration weight and press
	[Tare]

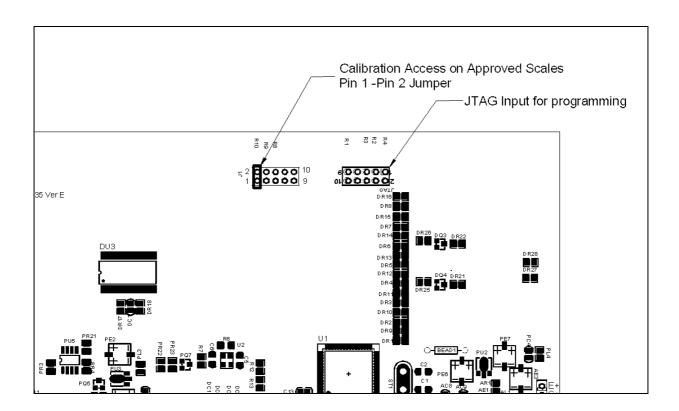
"SPAn" "PASS"	If Calibration is complete, "SPAN PASS" will be displayed. Remove the calibration weight.
Or, "SPAn" "FAiLEd"	This means calibration has failed. Remove the calibration weight and repeat the process.
"JP On"	Remove the jumper or shorting of the pins whichever is used. The indicator will return to normal weighing.

1.18. USING "2006" TO ENTER THE SERVICE PARAMETERS

Non-Approved indicators:

For the non approved indicator press the **[Tare]** key during the display counting when turned on,

Approved Indicators: For the Approved version a jumper can be installed to allow access or the Calibration and Parameter Counters must be enabled (see 15.2.10).



Apply power to the indicator. If the jumper has been used the display will ask for a code number, "Pn" on the Weight Display immediately. Or press the [Tare] key during the time the calibration counters are being displayed.

Enter the number 2006 when "Pn" is displayed and then press [Tare].

The displays will show the first parameters, called **"F1" "CAL"**.

To select another parameter press the **[Func]** key to advance through the parameters.

Press the [Tare] key to enter a parameter.

To exit a parameter, press the [Zero] key.

The display will show the parameter number and a name.

When a parameter is entered by pressing the **[Tare]** key, the displays will guide you through the parameter selected and the options available.

The parameters available are:

"F1 CAL"	To enter the Calibration
"F2 dEC" Á	Decimal Point Position
"F3 CAP" Á	Default Weighing Unit
"F4 Int" Á	Initial Zero Range
"F5 rEZ" Á	Re-Zero range
"F6 SCS"	Successive Tare Enable
"F7 Cnt"	Display the A/D counts
"F8 Zem"	Zero Mode
"F9 Lvd" Á	Low voltage detection
"F10 Cn" Á	Calibration and Parameter counters

1.18.1 F1 -CALIBRATION

To enter the calibration parameter, press the **[Tare]** key when **"F1"** is displayed. The indicator will be calibrated using 2 masses of approximately 1/3Maximum and Maximum. If the indicator has been calibrated once the values will be stored. If this is the first time the indictor is calibrated the user must enter the values for the calibration masses.

It is necessary to set the decimal point location and the capacity before calibration is possible.

The display will instruct you to remove any weight from the platform, "UnioAd". Press [Tare].

The display will tell you to add the first weight to the platform: "**Id 1**" " **10 kg**" If necessary change the value shown to match the weight to be used. Press [**CE**] to clear the old value and then enter the new value. All values entered are in whole numbers only.

Add the weight shown, wait for stability then press the [Tare] key.

The display will tell you to add the second weight to the platform: "Ld 2" " 30 kg"

Add the weight shown, wait for stability then press the [Tare] key.

The display will show "SPAN" "PASS" if the calibration is OK.

Remove the weight.

For the approved indicator the display will then show "**JP**" "**On**" indicating the jumper is still in place if the jumper within the indicator was used to access the parameters..

Switch off the indicator, and switch it on again to continue with the other Service parameters.

1.18.2 F2-DECIMAL POINT POSITION

To set the value for the decimal point location. The options are 0, 0.0, 0.00, 0.0000

To enter this parameter, press the [Tare] key when "F2 dEC" is shown.

The display will show the current setting.

Press the [Func] key to change the value. Select from 0, 0.0, 0.000, 0.000, 0.0000 Press [Tare] to accept the displayed value.

1.18.3 F3 – CAPACITY

To enter this parameter, press the [Tare] key when "F3 CAP" is shown.

The display will show the current capacity.

Enter the numeric values using the keypad. The indicator will check the number of divisions n = maximum/increment is less than 30,000 divisions. (3000 divisions for EC approved versions)

Press [Tare] to accept the displayed value.

On non-approved versions the display then lets you select the increment, "InC 2"

For example 100kg x 0.01kg the increment is 10grams. but the last digit increments by 1.

The display will show the current increment value as used with the current decimal point position.

Press the [Func] key to change the value. Select from 1,2,5,10, 20 or 50

Not all increments may be available for the capacity you selected.

For EC Approved versions the indicator will determine the increment that maintains the number of divisions to be 3000 or less.

Press [Tare] to accept the displayed value.

Press [Zero] to return to weighing.

1.18.4 F4 –INITIAL ZERO RANGE

To enter this parameter, press the [Tare] key when "F4 int" is shown.

The display will show the current initial zero range.

Press the **Ifuncl** key to change the value and press [Tare] to accept the value.

Press **[Zero]** to return to weighing.

1.18.5 F5 -RE-ZERO RANGE

To enter this parameter, press the [Tare] key when "F5 rEZ" is shown.

The display will show the current re-zero range.

Press the **[Func]** key to change the value.

Press [Tare] to accept the value.

Press [Zero] to return to weighing.

1.18.6 F6 -SUCCESSIVE TARE

To enter this parameter, press the [Tare] key when "F6 SCS" is shown.

The display will show if the successive tare is on or off.

Press the [Func] key to change the value.

Press [Tare] to accept the displayed value.

Press [Zero] to return to weighing.

1.18.7 F7 – ADC COUNTS

To enter this parameter, press the [Tare] key when "F7 Cnt" is shown.

This parameter allows you to view the A/D counts from the internal A/D converter.

This can be an aid to service.

Press the [Tare] key to return to the PARAMETER menu.

Press the [Zero] key to return to weighing.

Typical value at zero is 30,000-90,000 (approx.)

Typical value at full capacity is 500,000 (approx.)

1.18.8 F8 –ZERO MODE

To enter this parameter, press the **[Tare]** key when **"F8 ZEM"** is shown.

Select the Zero mode desired. In all but special cases Zero Mode 1 is used. The other 2 zero modes are for unique locations in the world and effect the +/- range of the zero.

Press the [Func] key to change the value.

Press [Tare] to accept the displayed value.

Press [Zero] to return to weighing.

1.18.9 F9 –LOW VOLTAGE DETECTION

This parameter allows detection of low voltage when the battery wears down.

To enter this parameter, press the [Tare] key when "F9 LVd" is shown.

The display will show if the LVD Mode is set to on or oFF.

Press the [Func] key to change the value.

Press [Tare] to accept the displayed value.

Press [Zero] to return to weighing.

1.18.10Á F10 –CALIBRATION COUNT (GK-M ONLY)

This parameter allows the calibration and parameter counting function to be active.

To enter this parameter, press the **[Tare]** key when **"F10 Cn"** is shown.

The display will show if the Calibration Counting Mode is set to on or oFF. If On the Calibration count and Parameter count will be seen at power on as described in section 6.0. If set to Off the only method that can be used for access to the calibration or parameters is to place the jumper on pins 1-2 of J1, See section 15.2.

Press the **[Func]** key to change the value.

Press [Tare] to accept the displayed value.

Press [Zero] to return to weighing.

1.18.11 F10 –AUTO ZERO RANGE (NOT AVAILABLE ON GK-M)

This parameter set the range the autozero is active within.

To enter this parameter, press the [Tare] key when "F10 Az" is shown.

The display will show the current setting, 0.5d, 1d, 2d, or 5d.

Press the **[Func]** key to change the value.

Press [Tare] to accept the displayed value.

Press [Zero] to return to weighing.

REPLACEMENT PARTS AND ACCESSORIES

If you need to order any spare parts and accessories, contact your supplier or Adam Equipment. A partial list of such items is as follows-

- Main Power cord or adaptor for USA versions.
- Replacement Battery

- In use cover
- Printer, etc.

SERVICE INFORMATION

This manual covers the details of operation. If you have a problem with the indicator that is not directly addressed by this manual then contact your supplier for assistance. In order to provide further assistance, the supplier will need the following information which should be kept ready:

A. <u>Details of your company</u>
-Name of your company:
-Contact person's name:
-Contact telephone, e-mail,
fax or any other methods:
B. <u>Details of the unit purchased</u>
(This part of information should always be available for any future correspondence. We suggest you to fill in this form as soon as the unit is received and keep a print-out in your record for ready reference.)
Model name of the indicator: GK
Serial number of the unit:
Software revision number
(Displayed when power is first turned on):
Date of Purchase:
Name of the supplier and place:
C. <u>Brief description of the problem</u>
Include any recent history of the unit. For example:
-Has it been working since it's delivered
-Has it been in contact with water
-Damaged from a fire
-Electrical Storms in the area
-Dropped on the floor, etc.

WARRANTY INFORMATION

Adam Equipment offers Limited Warranty (Parts and Labour) for the components failed due to defects in materials or workmanship. Warranty starts from the date of delivery.

During the warranty period, should any repairs be necessary, the purchaser must inform its supplier or Adam Equipment Company. The company or its authorised Technician reserves the right to repair or replace the components at any of its workshops depending on the severity of the problems. However, any freight involved in sending the faulty units or parts to the service centre should be borne by the purchaser.

The warranty will cease to operate if the equipment is not returned in the original packaging and with correct documentation for a claim to be processed. All claims are at the sole discretion of Adam Equipment.

This warranty does not cover equipment where defects or poor performance is due to misuse, accidental damage, exposure to radioactive or corrosive materials, negligence, faulty installation, unauthorised modifications or attempted repair or failure to observe the requirements and recommendations as given in this User Manual.

Repairs carried out under the warranty does not extend the warranty period. Components removed during the warranty repairs become the company property.

The statutory right of the purchaser is not affected by this warranty. The terms of this warranty is governed by the UK law. For complete details on Warranty Information, see the terms and conditions of sale available on our web-site.

Test Equipment Depot - 800.517.8431 - 99 Washington Street Melrose, MA 02176 - TestEquipmentDepot.com

APPENDIX

Press the [Func] key to enter Functions mode.

FUNC 1 Check weighing parameters F1 LLk oFF Limit Lock PSt (pre-set) F2 Led **bAr** (Bar type) LED display Spot (spot type) SPEA (whole segment) F3 bEP bP oFF Beeper Control **bP Int** (Inside Limits) **bP otL** (Outside Limits) F4 CPS Enter using numeric Check weighing method password F5 NCk On Negative Check Off weighing

PARAMETER LAYOUT for GK / GFK SCALES

Key functions while in this section **[Tare]** enter a parameter or accept the changes

[Func] move to next parameter or option

[Zero] return to previous parameter or return to weighing

)
,
(Manual Stable)
(Manual Any)
Auto Stable)
•
Auto End)
ontinuous Stable)
Continuous Any)
ng numeric keys
ng numeric keys
5

FUNC 3	
Scale Parameters	
S1 Un Units enable	kg Ib
S2 bL Backlight	EL oFF EL on EL AU (Auto)
S3 AoF Set Auto off time (min.)	SLP 0 SLP 1 SLP 5 SLP 10
S4 dt Set time and date	Set as described in manual
S5 dIS Display mode	All StAb (only when stable)
S6 Fi Set Filter	SLoW nor (normal) FASt
S7 SPS Scale password	Enter using numeric keys
S8 CAL	Perform calibration

FUNC 4	
Scale Parameters	
F4 Pct Percent Weighing	Enter 100% reference weight
F4 Ani Animal weighing	FLt 1 Filter setting To FLt 5





Declaration of Conformity Konformitätserklärung Déclaration de Conformité Verklaring van overeenstemming Dichiarazione di Conformità Declaración de Conformidad

Het niet-automatische weegwerktuig

Strumento per pesatura non automatico

Fabricant:

2006/95/EC

Fabricante

The non-automatic weighing instrument Die nicht- automatischen Wägeapparate

L'instrument de pesage à fonctionnement non automatique Manufacturer : Adam Equipment Co. Hersteller :

Imstrumento para pesaje non automatico

Adam Equipment Co. Fabri

Adam Equipment Co. Ltd.

Matériel électrique pour

utilisation dans des limites

(Directive Basse Tension)

Adam Equipment Co. Ltd.

définies

tension

Ltd. Ltd. GK.M/GFK.M/ GK..M/GFK..M/ GK M / GFK M / Туре: Тур: Type: GBK...M GBK..M GBK...M No of the EC EG-N du certificate Nr. der T1K2860 T1K2860 TIK2860 type-approval Bauartzulassung d'approbation certificate: GB1320 GB1320 GB1320 CE de type:

Corresponds to the production model described in the EC type-approval certificate and to the requirements of the Council Directive 2009/23/EC as amended and to the requirements of the following EC Directives:

Electromagnetic

compatibility

accompanied by a Certificate of Conformity

een certificaat van overeenstemming

afgegeven door een bevoegde instantie.

is only valid

2004/108/EC

This declaration

issued by a Notified Body.

Entspricht dem in der Bescheinigung über die Bauartzulassung beschriebenen Baumuster, sowie den Anforderungen der EG-Richtlinie 2009/23/EC in der jeweils geltenden Fassung und den Anforderungen folgender EG-Richtlinien:

Correspond au modèle décrit dans le certificat d'approbation CE de type, aux exigences de la directive 2009/23/EC modifiée et aux exigences des directives CE suivantes:

2006/95/EC Electrical equipment 2006/95/EC Elektrische Betriebsmittel for use within certain voltage limits (Low bestimmter

Voltage Directive) Spannungsgrenzen (Niederspannungsrichtlinie)

2004/108/EC Elektromagnetische

Verträglichkeit
Diese Erklärung gilt nur in Verbindung mit einer
Konformitätsbescheinigung einer benannten Stelle

2004/108/EC Compatibilité électromagnétique

Cette déclaration est seulement valide quand elle est accompagnée par une Attestation de Conformité délivrée par un Organisme Notifié.

Fabrikant: Adam Equipment Co. Produttore Adam Equipment Co. Ltd. Ltd. GK..M / GFK..M / GK..M / GFK..M / Modello: Type: GBK..M GBK..M Nummer van de N. di certificato di Verklarling van UK2860 UK2860 approvazione di tipo EG-GB1320 GB1320 typegoedkeuring

Conform met het model beschreven in de verklaring van EG-typegoedkeuring en met de voorschriften van EG richtlijn 2009/23/EC zoals gewijzigd en met de volgende EG richtlijnen:

Conform al modello di produzione descritto nel certificato di approvazione de tipo CE e secondo le richieste CE direttivo 2009/23/EC come modificato e secondo le rechieste della seguente directive CE volgende EG richtlijnen:

2006/95/EC Laagspanning richtlijn 2006/95/EC Strumentie elettrici per uso

entro certi limiti di voltaggio (Directivo di voltaggio basso) Compatibilita

2004/108/EC EMC richtlijn 2004/108/EC Compatibilita electromagnetico

Deze verklaring is alleen geldig samen met Questa dichiarazione e valida solam

Questa dichiarazione e valida solamente se accompagniato da un certificato di conformita relaciato da un ente riconosciuto. Tipo: GK..M/GFK..M/
GBK..M

Numaro del
certificado de UK2860
aprobacion de GB1320
tipo CE:
Conforme al modello di producion descrito nel
certificado di aprobacion del tipo CE e segun

certificado di aprobacion del tipo CE e segun los requisitos del CE diretiva 2009/23/EC como modificato e segun los requisitos della siguiente diretive CE

2006/95/EC Instrumentos electricos para uso dentro cierti

limites del voltaje (Diretivo di voltaje bajo)

2004/108/EC Compatibilidad electromagnetico

Esta declaracion es valida solamente si accompagniato a un certificado da conformidad emitida par un organismo notificado.

Signature
Unterschrift
Signature
Handtekening
Firma

IS Cumbach
Fache

Date
Datum
Date
Fache

22 July 2011



Manufacturer's Declaration of Conformity

This product has been manufactured in accordance with the harmonised European standards, following the provisions of the below stated directives:

Restriction of the use of certain hazardous substances in electrical and electronic equipment 2011/65/EC (RoSH)

Electro Magnetic Compatibility Directive 2004/108/EC

Low Voltage Directive 2006/95/EC

Adam Equipment Co. Ltd. Maidstone Road, Kingston Milton Keynes, MK10 0BD United Kingdom

FCC COMPLIANCE

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. The equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Shielded interconnect cables must be employed with this equipment to insure compliance with the pertinent RF emission limits governing this device.

Changes or modifications not expressly approved by Adam Equipment could void the user's authority to operate the equipment.

WEEE COMPLIANCE



Any Electrical or Electronic Equipment (EEE) component or assembly of parts intended to be incorporated into EEE devices as defined by European Directive 2002/95/EEC must be recycled or disposed using techniques that do not introduce hazardous substances harmful to our health or the environment as listed in Directive 2002/95/EC or amending legislation. Battery disposal in Landfill Sites is more regulated since July 2002 by regulation 9 of the Landfill (England and Wales) Regulations 2002 and Hazardous Waste Regulations 2005. Battery recycling has become topical and the Waste Electrical and Electronic Equipment (WEEE) Regulations are set to impose targets for recycling.

ADAM EQUIPMENT is an ISO 9001:2008 certified global company with more than 35 years experience in the production and sale of electronic weighing equipment.

Adam products are predominantly designed for the Laboratory, Educational, Medical, retail and Industrial Segments. The product range can be described as follows:

- -Analytical and Precision Balances
- -Compact and Portable Balances
- -High Capacity Balances
- -Moisture analysers / balances
- -Mechanical Scales
- -Counting Scales
- -Digital Weighing/Check-weighing Scales
- -High performance Platform Scales
- -Crane scales
- -Medical Scales
- -Retail Scales for Price computing

For a complete listing of all Adam products visit our website at www.adamequipment.com

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Adam Equipment reserves the right to make changes to the technology, features, specifications and design of the equipment without notice.

All information contained within this publication is to the best of our knowledge timely, complete and accurate when issued. However, we are not responsible for misinterpretations which may result from the reading of this material.

The latest version of this publication can be found on our Website.

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