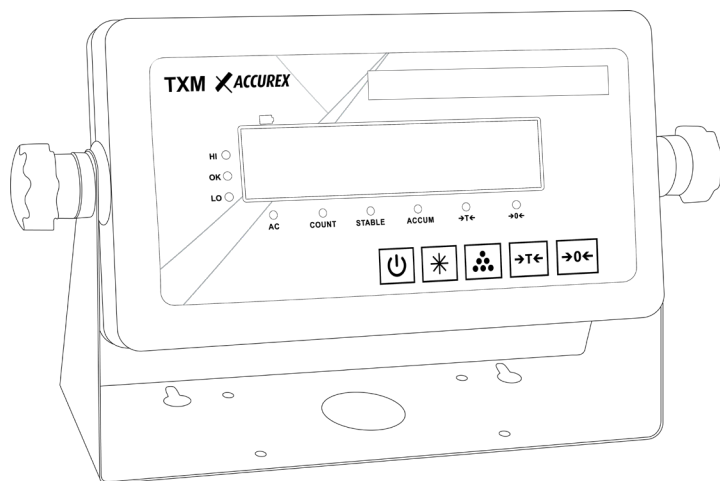


ACCUREX

TXM

INDICATOR



USER MANUAL

EN



INDEX

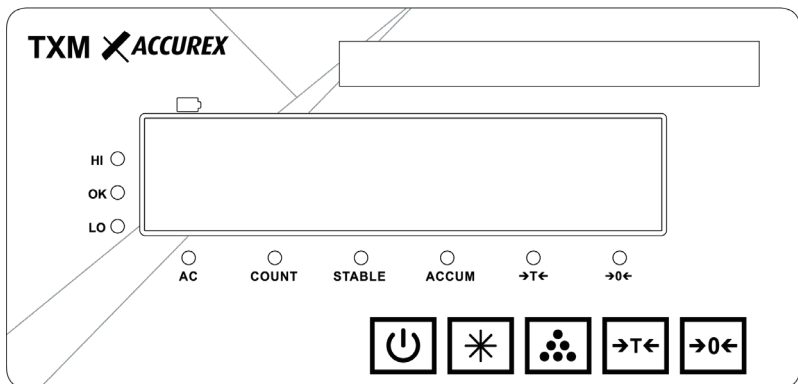
1. Main specifications	5
2. Keyboard	5
2.1. Keyboard	5
2.2. Keyboard function	6
3. Connection of load cells to the indicator	6
4. Instructions for use and description	7
4.1. Tare	7
4.2. Zero	7
4.3. Animal weighing function	7
4.4. Accumulation function	7
4.5. Upper and lower limit alarm settings	7
5. System setup	8
6. Communication protocol instruction	9
6. Failure and correction	10
7. Use of battery	10
8. Maintenance and precautions	11
9. Calibration instructions	11

1. Main specifications






- | | |
|------------------------------------|---|
| 1. Model: | TXM Digital weighing indicator |
| 2. Sampling rate: | 10-20 times/second |
| 3. Load cell sensitivity: | 1.5~3mV / V |
| 4. Intvall: | 1/2/5/10/20/50 (Configurable) |
| 5. Display: | 6-digit LED display with 10 status indicators |
| 6. Serial communication interface: | RS232 signal transmission distance \leq 20m |
| 7. Power supply: | AC/DC adapter 100-240Vac/50-60Hz – 12Vdc-500mA
Rechargeable Lithium Ion battery 18659 3.7V 4000mAh |
| 8. Operating temperature: | -10~40°C |
| 9. Transport temperature: | -25~50°C |

2. Keyboard

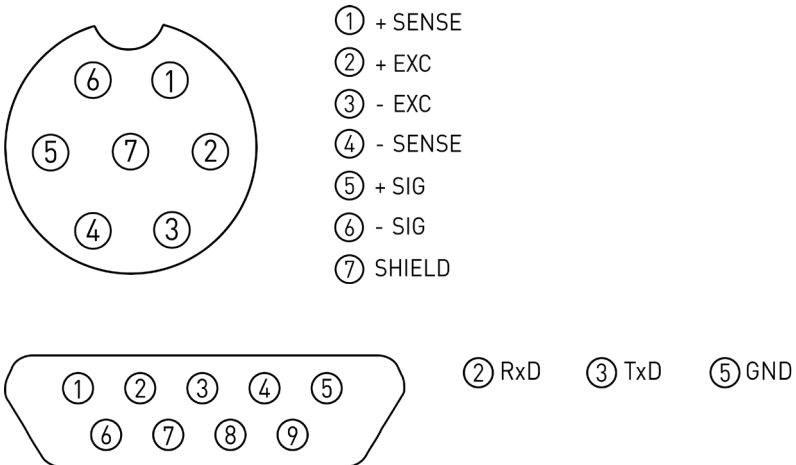
2.1. Keyboard



2.2. Function of the keyboard


Key	Function
	Press this key to turn the indicator on or off.
	Press and hold this button for more than 5 seconds in the weighing mode, it will enter the user parameter setting mode; when the serial communication mode is manual output, press briefly to send the weight data.
	In weighing mode, press this button to accumulate the weight; in self-test mode, press and hold this button, it will enter calibration mode; in calibration process, press this button to change the parameter settings.
	In weighing mode, press this button to tare; in parameter setting mode, press this button to change the parameter value.
	In weighing mode, press this button to zero; in calibration process, press this button to change the value.

3. Connection of load cells to indicator



4. Instructions for use and description

4.1. Tara

Place the load to be weighed on the scale platform, when the stability indicator lights up, press the  key to tare. The display shows zero and the net weight indicator light illuminates. Remove the load and press the  key again to cancel the tare, the net weight indicator light will go out.






4.2. Zero

Zeroing of the scale. The stability indicator must be lit. While the scale is zeroed, the zero indicator lights up. In addition to the zeroing button the scale shall perform an automatic zeroing each time it is switched on. The automatic zeroing device at start-up operates in a range of $\pm 10\%$ of the maximum capacity.

4.3. Weighing function of animals







In the parameterisation, set the value [P 9] to [2] to start the animal weighing function. Set the value [P 9] to [1] to deactivate the animal weighing function.

4.4. Function of accumulation

In weighing mode, press  the indicator will accumulate all the current weight, and at the same time the **ACCUM** indicator will light up. press the key  again, it will go to normal weighing mode and the **ACCUM** light will turn off; press the key  with the counter at zero, to display the current accumulated value; under the accumulation status, press  to reset to zero, press  can return to normal weighing mode and at the same time the **ACCUM** lights will turn off.

Note: the balance must be zeroed before the next accumulation operation. otherwise, you will not be able to perform the accumulation operation a second time.

4.5. Piece-counting function

In weighing mode press and hold  to enter the count function. The count light will come on and display [Count]. When stable, press the  key to enter the sample number setting and [C00000] will be displayed. After placing a few samples, press the  key to change. Press the  key to set the value of sample numbers. After setting the value of the current sample number, press  to sample and [-----] will be displayed. When number appears you can start counting. This sampling date will be saved. Press the key  to exit the counting mode.

Note: If the sample weight is less than the minimum sampling weight, the sampling will fail and the data from the previous sampling will be taken. If the weight of the sampling unit is less than the minimum weight of the sampling unit, the sampling will also fail and the data from the previous sampling will be taken.

5. System configuration

In weighing mode, press and hold the key **[*]** to enter the user setting mode. Press the **[→T←]** key to change the value. Press the key **[>0←]** to enter the next parameter; when all parameter settings have been completed, press the key **[*]** to exit the user configuration mode.

Display	Function	Parameter	Instructions
[P1 1]	Automatic shutdown	1	No automatic shut-off function
		2	10min
		3	20min
		4	30min
[P2 1]	Baud rate setting	1	4800
		2	9600
		3	14400
		4	19200
[P3 1]	RS232 output mode option	1	Continuous transmission
		2	Manual transmission
		3	Stable transmission
		4	Transmission once stable
[P4 1]	Energy saving mode	1	LCD without backlight; LED without energy saving function
		2	LCD with automatic backlight; LED with [P4 1] energy saving function
		3	LCD backlight to maintain LED illumination
[P5 1]	Zero tracking range	1	0.5e/2s
		2	No
[P6 1]	Filtering depth	1	Low
		2	Medium
		3	High

Display	Function	Parameter	Instructions
[P7 1]	Time of stability	1	Fast
		2	Medium
		3	Slow
[P8 1]	Range of stability	1	Low
		2	Medium
		3	High
[P9 1]	Animal weighing	1	Deactivate
		2	Activate
[P10 1]	RS232 Output protocol selection	-	Reference communication data

6. Instrucción del protocolo de comunicación

The communication speed of the indicator and the communication method can be set and selected in system configuration. The default baud rate is 9600 and the communication mode is continuous transmission.

P10=1:

Data format: =<weight data>. All data are ASCII code

Includes data format with 6 digit weight and bit signal. All lower position weight data are in front. High position and sign bit. the negative number sign bit will send [-]. the positive number sign bit will send [0]. For example, when the indicator shows [-500.00kg], the serial output data is [=00.005-]. When the indicator shows [500.00kg], the serial output data is [00.0050].

P10=2:

The indicator sends 13 characters as in the following list:

- 1-2: WN
- 3-9: Weight including decimal point
- 10: 0x20
- 11: unit kg
- 12-13: 0x0d 0x0a

P10=3:

The indicator will output gross weight, net weight, tare weight and serial number. It can be used to connect a small ticket printer.

7. Failure and correction

Display	Instructions
Err1	The AD value is too small when calibrated or the capacity is too low. of the load cell is too large.
Err2	The zero point is out of range when calibrated.
Err3	The zero point is out of range at start-up or there is too much weight on the scale.
Err5	No load is detected when calibrating the scale.
Err7	Incorrect load cell signal, check wiring.
Err8	The load cell signal is not stable.
Err9	The maximum supply voltage to the load cell has been exceeded. If the combined sensor is not correctly connected or selected for charging, connect or select correctly.
Err10	Error en la memoria de almacenamiento

8. Use of battery


- The battery charging is done while the indicator is connected to a 220Vac socket.
- The voltage indicator flashes to indicate low battery, please connect the power cable to charge the device.
- When the electronic scale displays the message LOB (“low battery”) the weighing function will stop. Please immediately switch off the equipment and plug it into a 220Vac socket to recharge the battery.
- It is recommended that before the first use the battery charging time is longer than 24h to ensure that the battery meets safe and stable working conditions.
- It is recommended to charge immediately when the battery is low as failure to do so may damage the battery and shorten its life. It is recommended that the charging time is longer than 12h. If the battery is not used for a long time, it should be recharged every two months for about 20-24 hours to protect the battery from damage and prolong the life of the battery.

Caution: The battery cable must not be reversed (red +, black -), otherwise the device may burn out. When using the device for the first time, make sure that the battery is fully charged.

9. Maintenance and precautions



- In order to extend the life of the weight indicator it should not be installed in direct sunlight.
- Avoid installing the scale in humid environments and keep it isolated from severe vibrations.
- Do not use strong solvents such as benzene and nitro based oils to clean the housing.
- Avoid spraying liquid on the indicator to prevent damage and electric shock.
- The battery incorporated in the electronic scale is a consumable and is not covered by the warranty.

10. Calibration instructions




In the off state, press and hold  to open the display, until the weight window shows [d X] release the key to enter the calibration procedure. The calibration procedure is as follows:




9.1. Press  to set the division value.

Display	Parameter
[d X]	1
	2
	5
	10
	20
	50

9.2. Press  to enter the decimal point setting menu. Press  to set the decimal point to the desired location.

Visor	Parameter
[P X]	0.
	0.0
	0.00
	0.000




10.3. Press the  key to enter the Max Capacity setting. Press the  to change digit, press the  key to change the value.


Display	Parameter
[FULL]	Press  to enter the maximum capacity setting.
[2000.0]	Press  to move the digit from left to right. When the number flashes, press  to add 1 value to the flashing number until the corrected number is displayed.

10.4. Press  to access the zero setting option.

Display	Parameter
[noLoAd]	Wait until the stability indicator is lit before proceeding to the next step.

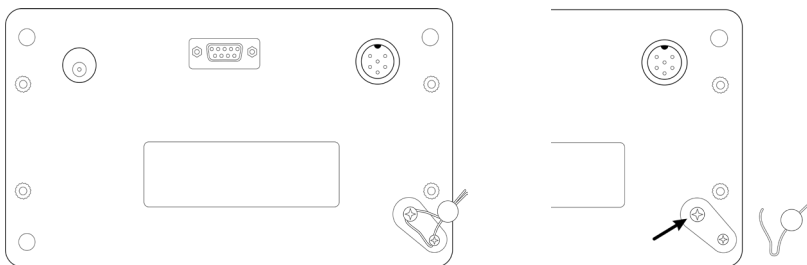
10.5. Press  to access calibration with a known weight.

Display	Parameter
[AdLoAd]	Press  to enter the value of the load at which the adjustment will be made.
[00000.0]	The last digit flashes.
[00200.0]	Press  to change digits. Press  to change the value of each digit. Repeat this operation until the display shows the weight of the load to be calibrated.

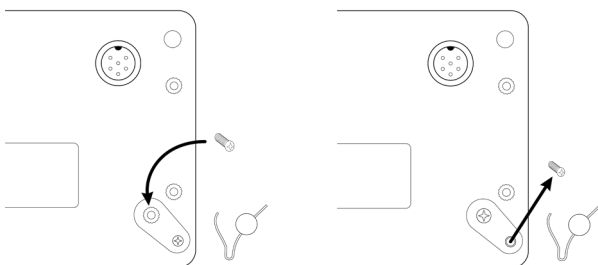
10.6. Press the  key to complete the setting.

Display	Parameter
[Fin]	Finishing adjustment.

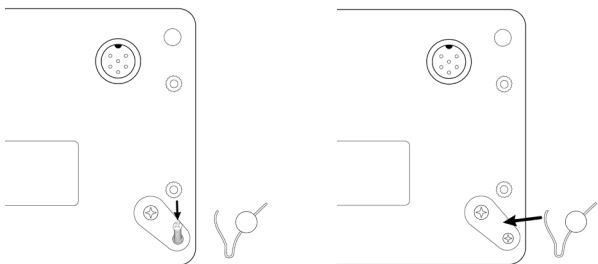
10.7. Open the cable sealing device on the back of the indicator. Unscrew the M5 screw with a screwdriver. The calibration switch is located under the M5 screw.



10.8. Put the M5 screw back into position. Then unscrew the M4 screw with a screwdriver- Place the M4 screw into the port of the calibration switch. Briefly depress the M4 screw. The indicator will save the calibration data and return to the weighing state.



10.9. Replace the M4 screw in the corresponding position with a screwdriver and seal the cable to finish the process.





Gram Precision S.L.

Travesía Industrial, 11 · 08907 Hospitalet de Llobregat · Barcelona (Spain)

Tel. +34 902 208 000 · +34 93 300 33 32

Fax +34 93 300 66 98

comercial@gram.es

www.gram-group.com