



www.scintex.com.au | sales@scintex.com.au

SCS3MT080, SCS3MT100, SCS3MT120, SHDHS1500 & SPLS1000

User Manual



Technical Data

Working Temperature : -5 to 35°C

Storage Temperature : -25 to 50°C

Stainless Steel Casing: – IP67, moisture proof, water proof, dustproof.


Power Supply: Rechargeable battery: DC 6V / 4Ah or Transformer or Adapter: 100~240V / DC 12V / 500mA

Important Information

Please read the manual carefully before use.

1. Do not use these scales in areas with excessive water. Do not spray water directly onto the monitor, clean with a damp rag.
2. Do not overload the scales.
3. Keep the scales away from high temperatures and damp conditions.
4. If the scale is not going to be used for some time, please disconnect the monitor and store away from moisture.
5. If the monitor is stored please recharge the battery every 2-3 months to ensure its longevity.







Preparing To Use The Scales

1. Place the platform on a level surface away from vibrations for the most accurate readings.
2. Adjust the levelling feet if present.
3. Where possible avoid using in direct sunlight or near air conditioning vents.
4. Ensure that no weight is on the scale when the scale is turned on.
5. The scale will go through a quick LCD display test and re-zero when ready for use.
6. Please note that when the battery indicator () is illuminated the internal battery needs charging.

Power Supply & Charging

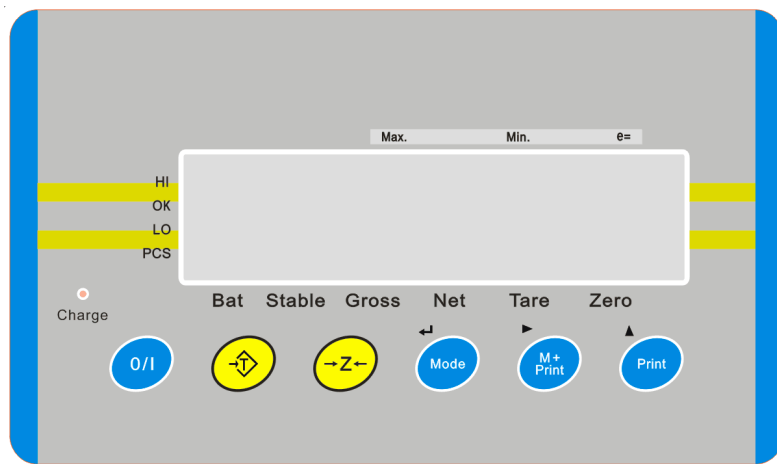
The scale will power off automatically when the battery is flat. Monitor the battery % displayed as the monitor powers off. A Red charge light will also indicate a flat battery. Make sure to always fully charge the monitor. Never partially charge the battery as it will reduce the battery life. To charge remove the plastic plug at the rear, connect the charging cable to the monitor and charge using a power socket. The charge light will be lit Yellow when the battery is charging. This will turn Green once the battery is fully charged. DO NOT leave a charging battery unattended.

LCD Display Symbols

	Stable indication		Battery capacity indication
	Gross Weight indication		Net weight indication
	Tare mode		Zero indication.

HI/OK/LO	Check weighing indication	HOLD	Animal weighing
PCS	Counting function	kg/lb/t/g/PCS	Weigh units

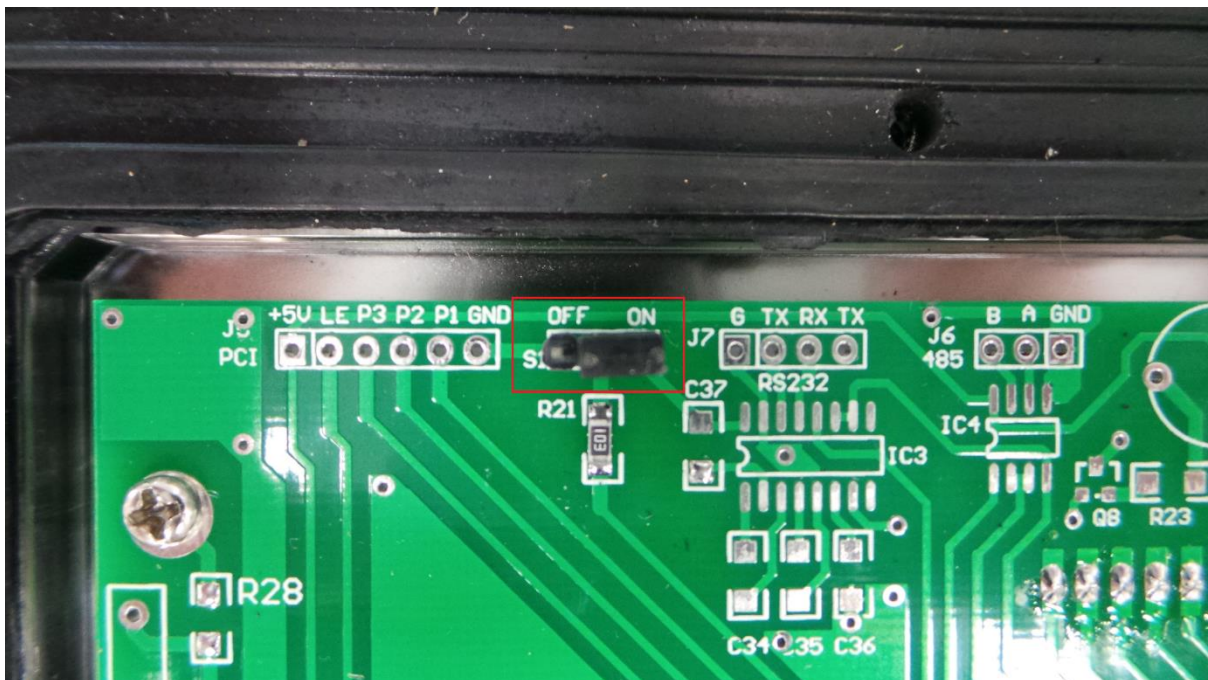
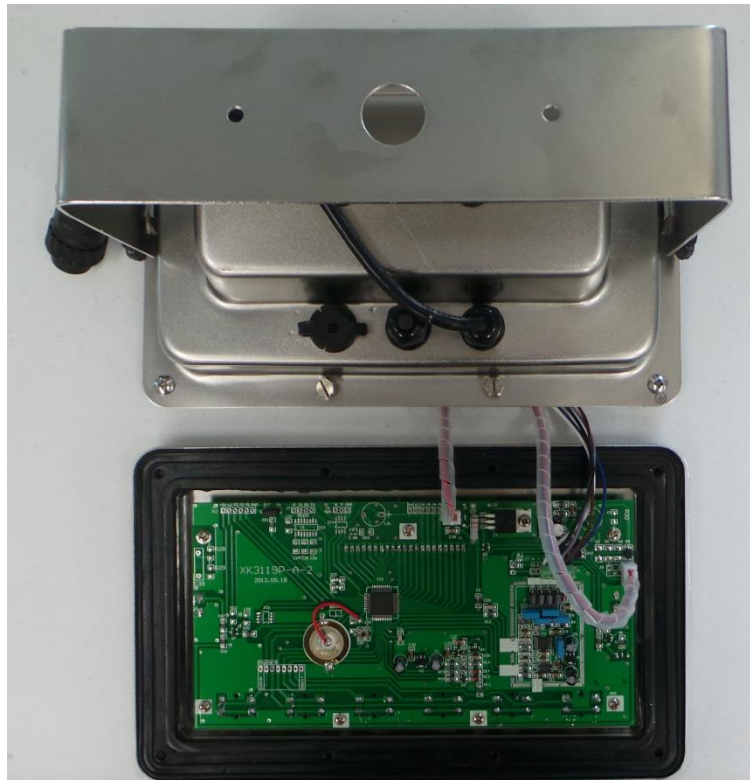
Face Panel Function



O/I	Turn on / off. The indicator will be turned on when pressing the key. Press and hold the key for 1.5 seconds, the battery charge percentage "bpt - -" will show on the screen, then the indicator will power off.
	Deduct the container weight. Press this key to deduct container weight and net weight indication will display.
	To re-zero the scale. Range of re-zero is $\pm 2\%$ of full scale.
MODE	<ul style="list-style-type: none"> * Weigh unit switching or selecting the backlight mode while in weighing mode. * Press to confirm the setting when it is in set menu or calibration mode.
M+ Print	<ul style="list-style-type: none"> * For recalling and printing out the accumulative weight. Accumulative time and weight will display on the screen for 1.5 second respectively. Press zero to clear accumulative weight and time. * Selective key when in settings menu.
PRINT	<ul style="list-style-type: none"> * Press the key to print out the current weight and the weight will be added up to accumulative weight * Selective key when in settings menu.

Changing the Jumper Position

For normal operation the circuit breaker jumper should be in the OFF position. For more advanced features such as setting the calibration the jumper should be in the ON position. To adjust the jumper, open the monitor by undoing the 8 screws at the back. Carefully remove the back of the casing. Inside you will see a small black jumper which can be moved between ON and OFF.



General Functions

NOTE: The circuit breaker jumper should be in the OFF position to perform these functions.

Setting Automatic Power Off

Press and hold [ZERO] for 2 seconds, the screen will display **OFF XX**, "XX" refers to preset shut down time. There are 7 choices for preset shut down time: 10, 20, 30, 50, 60 and 0 minutes. The indicator will power off automatically if there are no changes in weighing value and no operation on the keyboard. By setting to 0 will mean there is no automatic power off. Press [PRINT] to select then press [MODE] to confirm the selected preset time.

Setting the Buzzer

After setting the automatic power off, the indicator will display **bP On** or **bP OFF**. Press [PRINT] to select "on" or "off". Press [MODE] to confirm. Note: using the buzzer will consume more battery power.

Setting the Back Light

After setting the buzzer function, the indicator will display **bAn XY**. X means the backlight mode as follows:

X=0, means no backlight.

X=1, means manual mode. Pressing Mode turns the back light on or off.

X=2, means automatic backlight function mode 1. The back light will be on whenever there is a weight on the scales.

X=3, means automatic backlight function mode 2. The back light will be on whenever there is a weight on the scales but will turn off after 10 seconds.

Y means Stand-by mode:

Y=0, means the indicator will not show the Time & date when in standby mode.

Y=1, means the indicator will show the Time & date when in standby mode.

Press [M+] & [PRINT] to select the value.

Press [MODE] to confirm.

Setting High & Low Check Points

After setting the back light function, the screen will display **XXXX HI**.

The indicator has a weight check point function which allows the monitor to be triggered at a high and low weight.

Step 1: When [XXXX kg] & [HI] indication is showing, set the high weight. If the scale is over this weight “ HI ” will show on the screen and the buzzer will sound.

Set the high weight by pressing [M+] & [PRINT] to set, then press [MODE] to confirm.

Step 2: When [XXXX kg] & [LO] indication is showing, set the low weight. If the scale is under this weight, “ LO ” will show on the display and the buzzer will sound. Set the weight by pressing [M+] & [PRINT] to set, then press [MODE] to confirm.

Setting Auto Shutdown Protection for Low Battery

After setting the high low points, it will display [PLO XX]. “XX” means Percentage of battery capacity. When the capacity of battery is lower than the setting value, the indicator will shut down and need to be charged. This increases the life of the battery. Default is “20%”. Press [PRINT] to select and press [MODE] to confirm.

Scale Calibration

Note: Ensure the circuit breaker jumper is in the ON position.

Step 1: Press and hold [TARE] for 1.5 second, indicator will display [CAL SP]

Step 2: Press [M+] to enter calibration mode. [CAL 0] which denotes that there is nothing being weighed on the scale will display on the screen. Make sure there is no weight on the scale at this point.

Step 3: Press [MODE] to enter mode of automatic zero correction and [-----] will display. After a few seconds the previous calibration weight will show on the screen.

Step 4: Load the calibration weight onto the scale, for example 20kg. After a stable indication displays, press [M+ PRINT] & [PRINT] to input the weight 20kg.

NOTE: The calibration weight must be at least 10% of the total capacity of the scales. For example, for 3000kg Cattle Scales a calibration weight of at least 300kg must be used.

Step 5: [-----] will display on the screen after step 4 indicating the scale has entered into calibration and weighing mode.

Step 6: If [20kg] displays on the screen, it denotes consistency with the calibration weight. If the value differs from 20kg or the calibration weight then please recalibrate again.

Step 7: Offload the weight. A stable reading of [0.00kg] will be displayed showing no weight is on the scales.

Step 8: The scale will return to weighing mode after calibration is finished.

Configuration Settings

Note: Ensure the circuit breaker jumper is in the ON position.

Entering Setup

Press and hold [TARE] until [CAL SP] is displayed on the screen. Press [MODE] to enter into setup mode and [SET] will display. Press [M+ Print] to enter the menu.

Weight Division

The screen displays [d X.XXX]. "d" is the division for range display. Press [M+] & [PRINT] to change the division. Press [MODE] to confirm and proceed to the next step.

Display Resolution

The screen displays [n XXXX]. The value shown is the display resolution.

*** Display resolution = (division) kg/ (full capacity) kg**

Ignore the decimal point shown and take the value as a whole number.

Example: take "n 060.00" as 6000, take "n 120.00" as "12000".

Press [M+] & [PRINT] to input the value of resolution. Press [MODE] to confirm value and enter in to the next step.

Note: Please calibrate the scale again after changing 'Division' and 'Display Resolution' settings.

Zero Range / Zero Tracking Range / Weight Unit Setup

The screen displays [Ut ABXY]

A: Zero range when power is on, 1~9 means 10%~90% FS to zero, 0 means not to zero the scales.

B: Zero tracking range, 1~9 means 1~9 x 0.3d for tracking range.

X: Basic unit. It displays the basic and default unit after the indicator power is on.

Y: Second unit. It means switching the units from the basic unit to the secondary unit by pressing [MODE].

When XY are set to the below value, it will be a different function:

00= kg only, 01=kg / lb switching, 10= lb / kg switching,

11 = lb only 22= t only 33 =HL only

0n = Standard weighing mode / Counting mode switching.

Press [M+] & [PRINT] to input the value of resolution.

Press [MODE] to confirm the value and progress to the next step.

Setting the Baud Rate

The screen displays . Press [PRINT] to select from 2400~9600 and press [MODE] to confirm and progress to the next step.

Setting the Serial Protocol

The screen displays . XX values decide the serial protocol.

1. XX=99: Indicator will not send out weight data unless [M+] or [PRINT] is pressed in normal weighing mode.
2. XX=01~98: Indicator will send out data after receiving command.
3. XX=00: Indicator will send out continuous data automatically to 10 times per second.

Press [M+] & [PRINT] to input the value of resolution.

Press [MODE] to confirm value and enter in to the next step.

Setting the Output Format for the Serial Protocol

The screen displays or . For example: The reading weight is 15.00kg.

When set rS=HI, the output will be " 1 5 . 0 0 k g ".

When set rS=LO, the output will be " g k 0 0 . 5 1 ".

Press [M+] & [PRINT] to input the value of resolution.

Press [MODE] to confirm value and enter in to the next step.

Weight Response Speed Filtering

The screen displays .

A: It means the response speed when weighing.

Speed increases by number. "0" is the fastest, "4" is slowest,

B: It means filter strength when weighing.

Strength increases by number. "0" is minimum, "3" is maximum.

Press [M+] & [PRINT] to input the value of resolution.

Press [MODE] to confirm value and enter in to the next step.

Animal Weighing (Hold Function) Setting

The screen displays .

There are 6 degrees of weighing mode. X=0 is normal mode without an animal lock time. X=1~5 is the animal weighing mode. This changes the time to take a stable reading.

Press [M+] & [PRINT] to input the value.

Press [MODE] to confirm value and enter in to the next step.

Changing LCD Screen Brightness

The screen will display . X is the brightness with 5 being the brightest.

Press [M+] & [PRINT] to input the value.

Press [MODE] to confirm value and enter in to the next step.

Outlay Display Option

The screen displays . It means the option is On or Off. When connecting with one display, set X= 1. If no display needed, set X=0.

Press [M+] & [PRINT] to input the value of resolution.

Press [MODE] to confirm value and enter in to the next step.

Configuration

The screen will next display CF-X. X should be set to 0 in all cases.

Confirm Settings

The screen displays . It is the final confirmation of the configuration settings.

Press [MODE] to repeat settings from beginning

Press [ZERO] to confirm the configuration and exit to normal weighing mode.

Error Signals

Error 1: Calibration is incorrect or not working. Weight is too low or division is too high.

Error 2: Zero is wrong. Check load cell for impediment or damage.

Error 3: Displayed value exceeds the display range after unit change.

---H--- : Overload, the loaded weight exceeds the full range.