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In order to calibrate your system you will first have to define the scale.
For more detail please see section 3.2 in the user manual.

Turn your XT1000 on and wait until the instrument has fully completed its countdown sequence and the display has stabilised.

If turning on for the first time it is advisable to leave the XT1000 for 30 minutes prior to calibration.

Press both the EXIT and →0← keys together which will change the display to Id0000 with the first 0 flashing.

Pressing the up key F (▲), allows you to change each 0 to 1, 2, 3 etc.

Pressing the left →0← (◄) and right → (►) keys then moves you to each position. E.g. _000, 2_00, 28_0, 280_

Change these 0's to read 2802 which is the factory access code.

Once you have changed Id0000 to read Id2802 press the enter ↵ button.

The XT1000 will then briefly display UnPro to confirm that the instrument is in the unprotected mode and the parameters can be altered.

Once it has shown UnPro the display will change to show to dEF (Scale Definition)

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Press ↵ on dEF and you will then see CAP, which is the maximum capacity of your scale that you will require.

Press ↵ again and this allows you to input the maximum capacity of your scale using up to 6 digits. You input this number using the F, →0← and → keys.

Once you have entered your maximum capacity press ↵ to store this value and you should again see CAP.

Note: CAP ÷ d 1 ≤ 100000 or you will see ErrCAP.

Press → to move to d 1, which is the division of the scale that you require. This division is determined by taking the **higher** value of:

i. CAP (value you have used for the maximum capacity of your scale) ÷ 100,000
ii. (Load cell capacity, expressed in the same unit of measure as used for CAP ÷ 10,000) x √(number of load cells)
iii. Maximum product load ÷ division of the load cell (e.g. 3000 division for a C3 cell.)

Once you have calculated the highest value, press ↵ and using the →0← or → keys choose the next closest value (rounding up) from 1, 2, 5, 10, 20 or 50. **If you require a number smaller than 1 you can choose the dP (decimal place) in the next step**, for example if 0.05 is required choose 5 in d 1 and then 0.00 in dP.

Once you have chosen your division press ↵ to store and you will then again see d 1.

Note: CAP ÷ d 1 ≤ 100000 or you will see Errd 1

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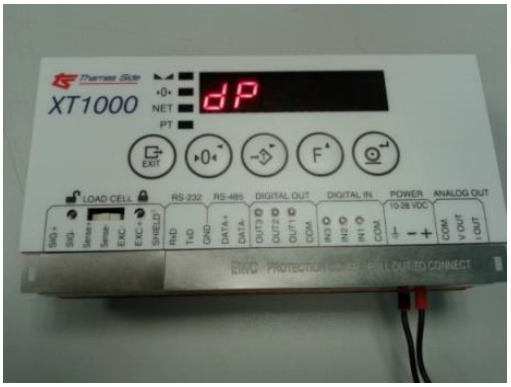

Press → to move to dP, which is the position of the decimal point that you require in relation to the capacity of the scale, (for example in a 3000KG scale you may only require 1KG intervals so 0 decimal places)

Press ⊙↵ and choose your dP using the →0← or → keys.

Once you have made your choice press ⊙↵ to store this value and get back to dP.

Press → to see 0-trAC, which is the level at which the system is automatically zeroed as long as the weight is within the selected band and it is stable.

Press ⊙↵ to choose your required value using the →0← and → keys.

The default setting is 0.5d. Press ⊙↵ to store this value and get back to 0-trAC.

Press → to see 0-toP, which is the range within which the scale may be zeroed.

Press ⊙↵ to choose your required value, **the default setting is** 1.9 but can be altered if required using the →0← or → key.

Press ⊙↵ to store this value and get back to 0-toP.

Press → to see 0.StArt, which zeroes the indicator when it is turned on. Press ⊙↵ and using the →0← or → keys choose either oFF **(which is the default setting** recommended for silos/tanks and hoppers), or change to on (recommended for platform scales)

Press ⊙↵ to confirm and go back to 0.StArt.

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Press → to see UndErL, the point at which the computer indicates the input error signal below the minimum range.

Press ⊙ and choose your option using the →0← or → keys, **the default is setting is** oUErL, once you have chosen your option press ⊙ to confirm and go back to UndErL.

Press → to see Un It, press ⊙ to choose your unit of weight using the →0← and → keys. The options are:

Kg = Kilogram,

t = Ton,

g = Gram,

Lb = Pound,

o = Ounce,

nonE = None)

Press ⊙ to confirm your choice and go back to Un It.

The XT1000 scale has now been defined.

By pressing EXIT you will return to dEF where pressing either the →0← or → key and scroll until you see:

CAL 1, to perform a calibration with verified weights. (Section 4.1 in the user manual)
CAL 2, to perform a theoretical calibration if you do not have any verified weights. (Section 4.2 in the user manual)

Pressing EXIT again when you are on dEF exits the configuration level completely.

Note: If you exit the configuration level you will have to re-enter the Factory Access Code 2802 to calibrate your XT1000.

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CALIBRATION WITH VERIFIED WEIGHTS (CAL 1)
Section 4.1 in the user manual

Ensure that there is no unwanted weight on the system and that you are in the configuration level.

Using the →0← or →⇨ keys scroll from dEF until you see CAL 1.

Press ⊙↵ when you see CAL 1 and you will then see 0Ero,

Press ⊙↵ again and you will see the preset coefficient value

Press ⊙↵ again you should see -CAL 1- flashing which will store this as your zero point.

Once it has stored this value it will return to 0Ero.

Press →⇨ on 0Ero you will see SPAn.

Place your verified weight onto your scale and press ⊙↵ where you will see a value displayed.

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Ensure that the value shown on the XT1000 matches the weight placed on the scale.

You can alter this value using the F, ▸0◂ and → keys.

Once you have the correct weight showing press ⊙↵ and -CAL 1- will again flash storing this value.

Normally this is sufficient for most calibration purposes and at this point you can press EXIT and again EXIT to leave the configuration level completely and your X1000 should now be calibrated and ready to weigh.

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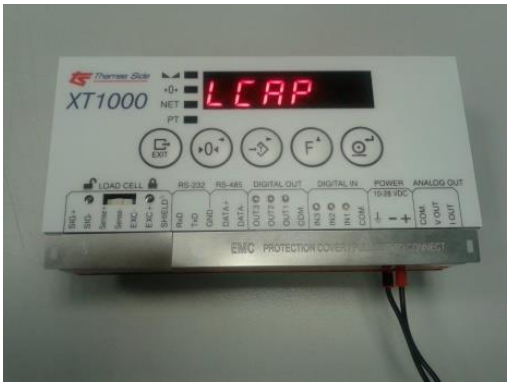
THEORETICAL CALIBRATION (CAL 2) when no verified weights are available.
Section 4.2 in the user manual

Ensure that there is no unwanted weight on the system and that you are in the configuration level.

Using the →0← or →⇨ keys scroll from dEF until you see CAL 2.

Press ⊙↵ and you will see LCAP.



Press ⊙↵ and enter the nominal capacity of **<u>one</u>** of the load cells being used.

This value is expressed in the same decimal point used in CAP and d 1

Press ⊙↵ to store this value and return to LCAP.

Press →⇨ to see Lno, which is the number of load supports.

Please note that all supports must be counted <u>including</u> those without load cells.

Press ⊙↵ to enter the number of supports using the F button.

When correct press ⊙↵ to store this value and you will return to Lno.

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Press → to see LSn which is the mv/v value of the load cell(s) being used. Typically this information is on a sticker on the load cell.

If you have more than one cell in your system then average out the mv/v values and use this average figure.

Press ⊙↵ to enter the mv/v value using the F, →0← and → keys,

Once correct press ⊙↵ to store this value and you will return to LSn.

Press → to see 0Ero which is your automatic Zero adjustment.

Press the ⊙↵ and you will see the preset coefficient value.

Press ⊙↵ again you should see -CAL 1- flashing which will store this as your zero point.

Normally this is sufficient for most calibration purposes and at this point you can press EXIT and again EXIT to leave the configuration level completely and your X1000 should now be calibrated and ready to weigh.