

## **PCS Electronics - Area Travel Meter.**

Fits to any type of vehicle, Tractor, Sprayer, Quad bike, Forestry / Agricultural / Green Keeping etc.

Speed sensor included.

Clear backlight LCD display with 4 lines and 4 multifunction buttons.

Displays Area covered in Acres, Hectares, or Square meters.

Displays Distance travelled in Miles or Kilometers.

Displays Ground Speed in MPH or KmH.

Displays Work Rate in Acres/Hour, Hectares/Hour or SqMeters/Hour

Stores up to 12 different implement widths, and 6 different tyre sizes.

It has a manual mode and an automatic mode, Automatic mode can detect PTO or lift arm signals of both high and low voltage.

Stores in memory area travelled so far, so you can continue a job where you left off without having to add up manually.

Simple 9 way 'D' plug connects all signals so can be easily moved between vehicles.

1 year RTB Failure Warranty.

Additional Options are a CAN bus interface and 2 switching outputs,  
These can be added and programmed in the software upon request.

## Installation Instructions

### Connector Pins

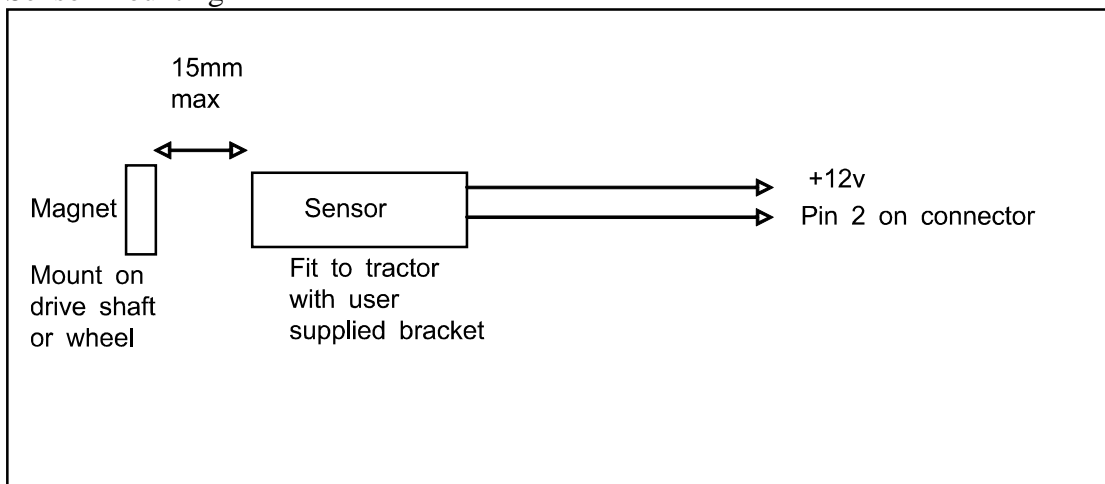
1. +12v Ign
2. From Pulse sensor(rewired)
3. Lift Arm signal
4. PTO signal
5. -ive battery ground
  
6. CAN H (option)
7. CAN L (option)
8. Output 1(option)
9. Output 2(option)

### Minimum connections

Red Wire to ignition signal

Black Wire to vehicle ground.

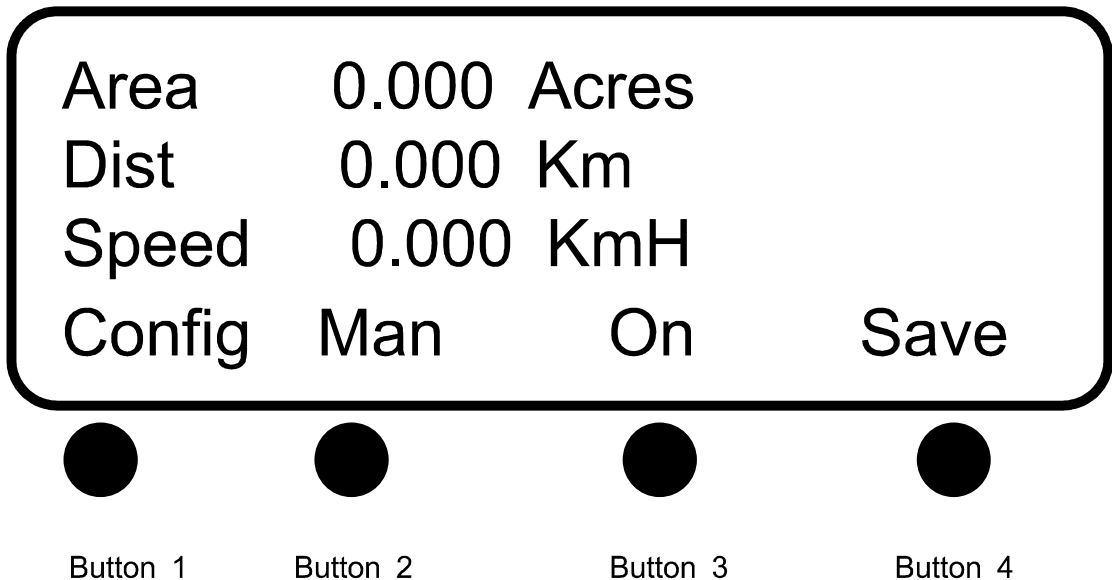
### Sensor mounting



## Operating Instructions

### Software Setup

Start up screen will look similar to below:-



Button 1 will access the configuration menus, see on page 4.

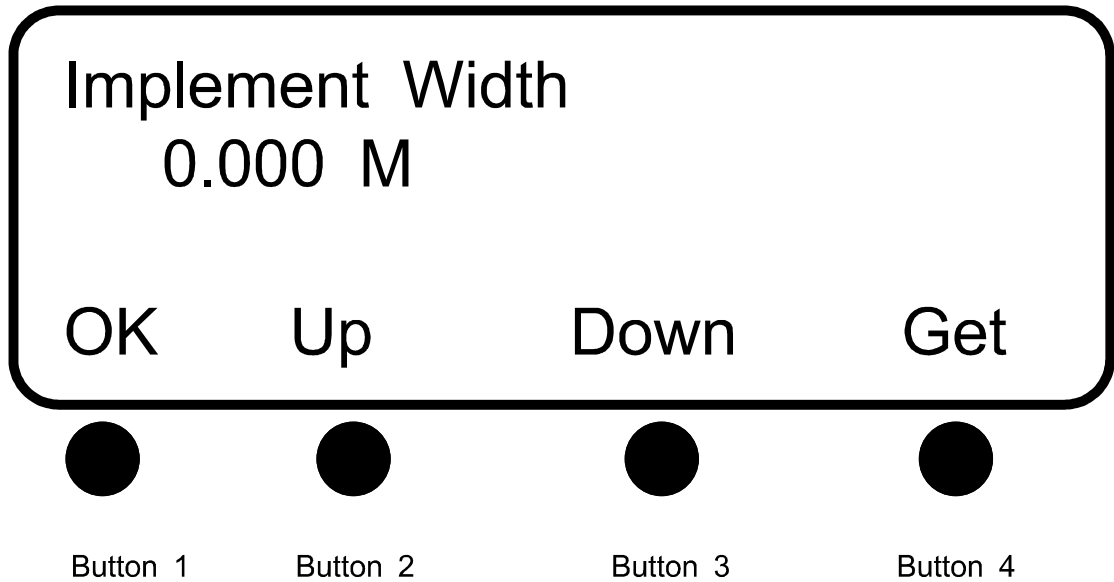
Button 2 switches between manual and automatic mode

Button 3 is available in manual mode to turn area counting ON or OFF

Button 4 will save all counts so far to memory, note if tractor has been moving and has stopped (speed indicates 0.000) counts are automatically stored, so the save operation is not required.

## Configuration Pages

### 1. Implement Width

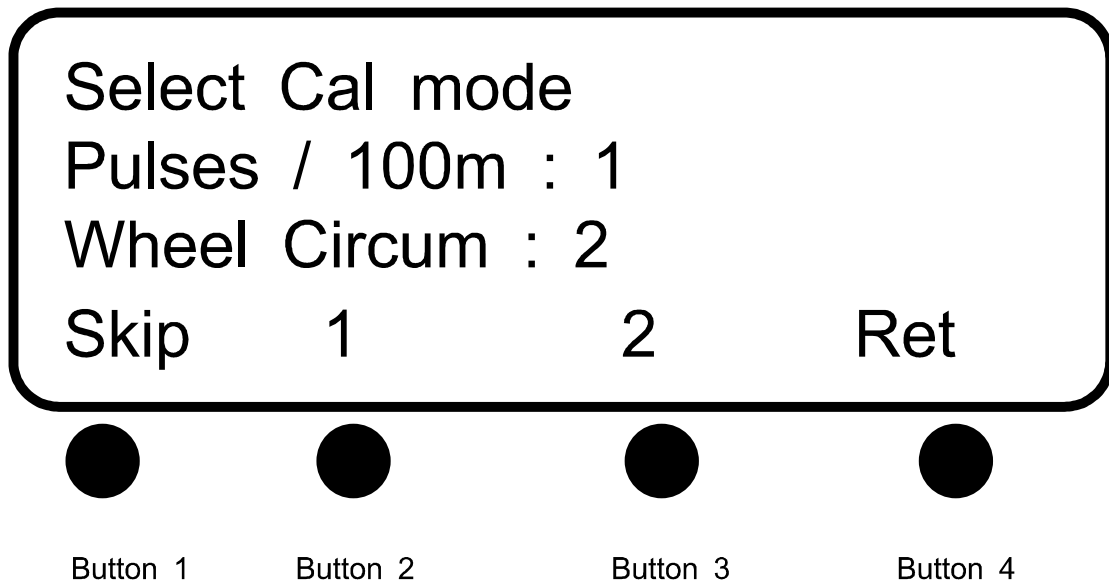


Options are :-

- Press button 1 if Ok with current displayed width, and skip to next configuration screen.
- Press button 4 to changed to a previously stored implement width.
- Press Button 2 to increase displayed width, holding the button pressed accelerates the rate of change. Go back to pressing it in and out to fine tune displayed width.
- Press button 3 to decrease width.
- Once a new width has been set on the screen, it can be saved to memory by pressing button 4 and choosing a location to store it. Or press button 1 to use the displayed width but not store it in a memory location.

The next Screen will ask the question whether you want to clear the stored area totals or not, answer YES or NO.

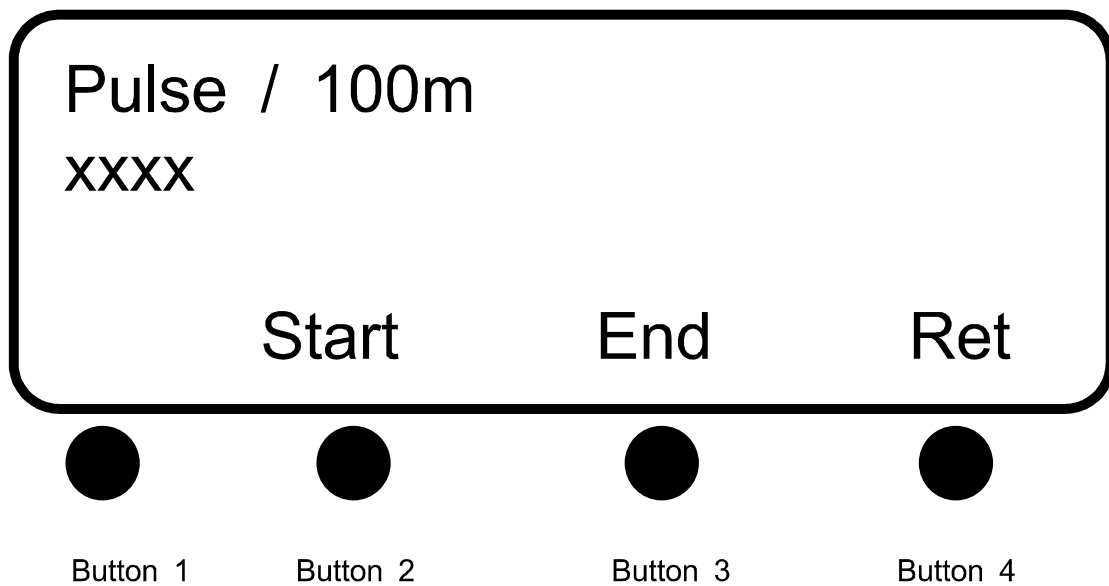
## 2. Select Wheel Calibration Mode.



Options are: -

- a. Press button 1 to skip wheel size selection, and continue with other configuration options.
- b. Press button 4 to return to normal operation display.
- c. Press button 2, (Pulses / 100m, option 1) to calibrate wheel size over a measured distance of 100 meters. In this mode you measure out a distance of 100m with a measuring wheel or tape, line tractor up at START position, press start button, then drive to END position and press the end button. This option must be used if the sensor magnet is fixed to a drive shaft that turns more or less than one revolution per wheel revolution.
- d. Press button 3, (Wheel Circum, option 2) to enter a wheel circumference.

### 3. Pulses / 100m set up screen

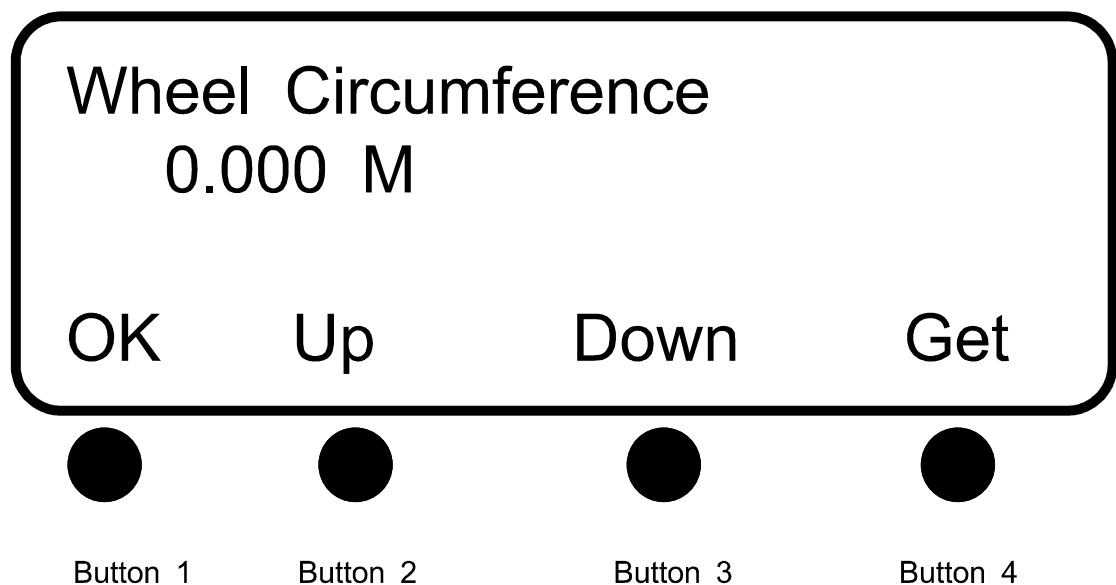


XXXX displays current pulse count.

#### TIP.

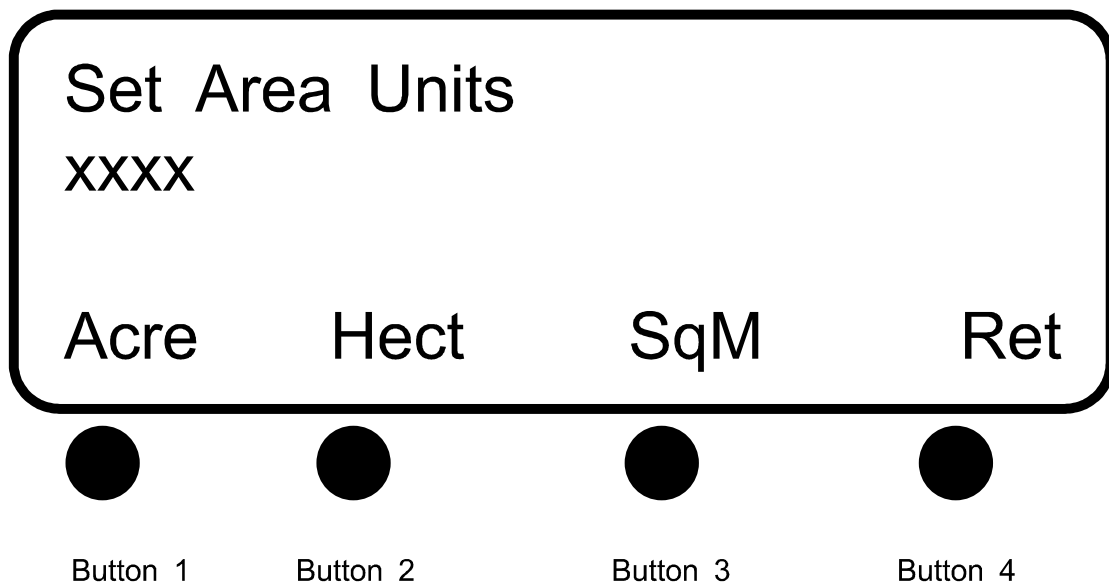
Once set the data can be stored, by going back in to configuration page Select Cal mode and choosing option2, press UP and DOWN button once each, then press the SAVE option, then choose the memory location to store the wheel Circumference in.

### 4. Wheel Circumference Setup page



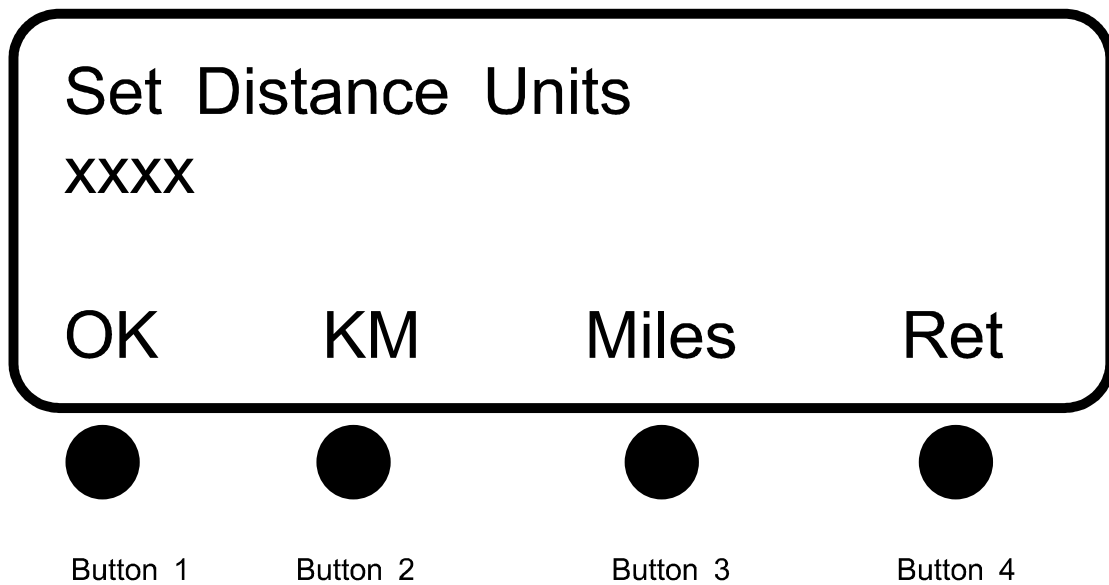
Set in the same way as implement width, once UP or Down pressed button 4 function changes from GET (retrieve stored data) to SAVE (save new data).

## 5. Set Area units configuration page



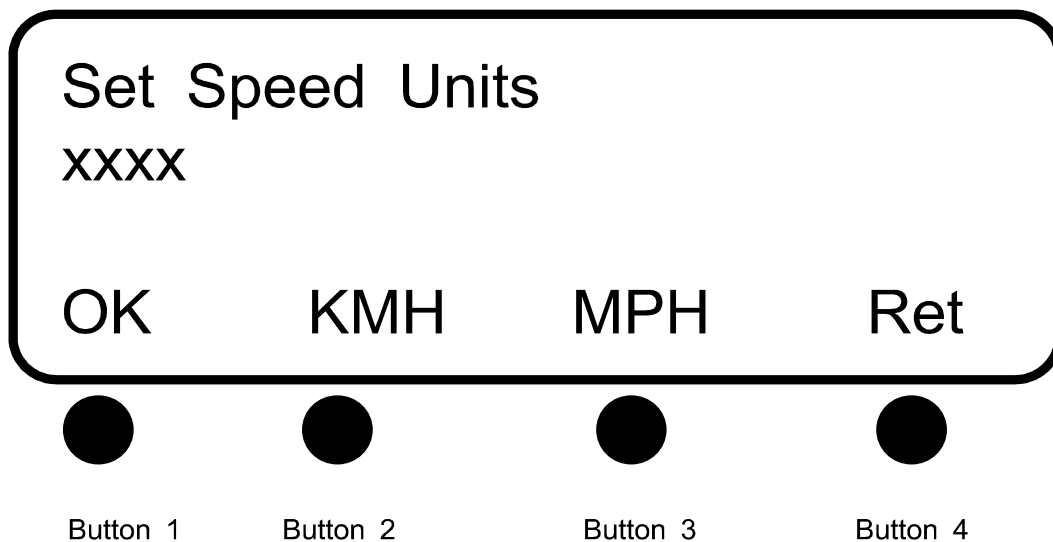
XXXX displays current selected display units for Area, Either choose a new one current one or return from Configuration. Once a new one is chosen menu drops down to next page.

## 6. Set Distance units configuration page



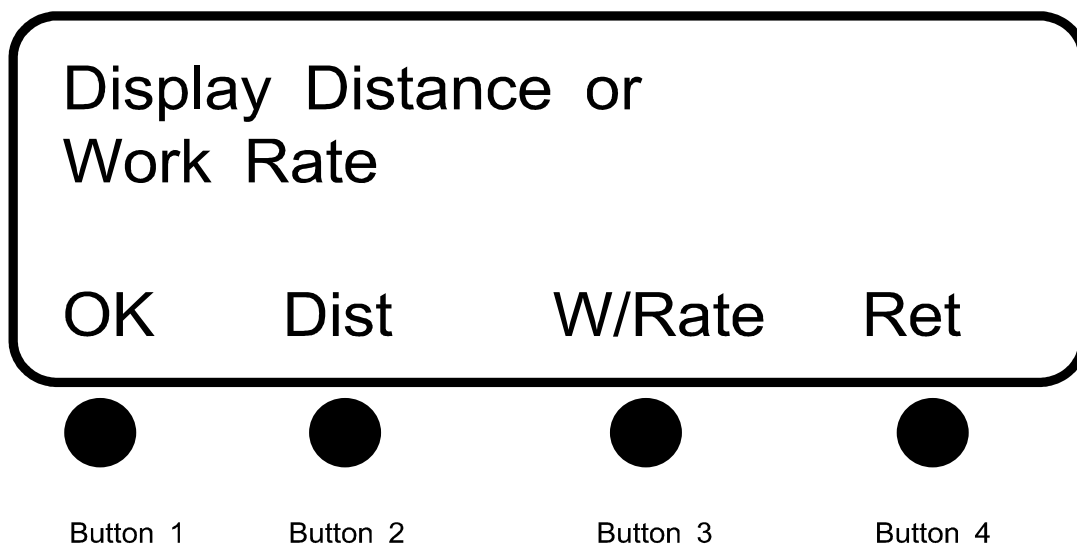
XXXX displays current selected display units for distance, Either choose a new one, press OK to skip to next page, or return from Configuration. Once a new one is chosen menu drops down to next page.

## 7. Set Speed units configuration page



XXXX displays current selected display units for Speed, Either choose a new one, press OK to skip to next page, or return from Configuration. Once a new one is chosen menu drops down to next page

## 8. Distance or Work Rate Configuration page



On the second line of the main screen the “Distance travelled” or the “Work Rate” can be displayed. This is the option page to change this selection. Either press:-

- a. Button 1 to skip to next page with no changes.
- b. Button 2 to change display to Distance travelled.
- c. Button 3 to change display to Work Rate, ie Acres/Hr or Hectares/Hr.
- d. Button 4 to return to main display screen with no changes.




9. Automatic mode configuration page.


**Set Auto Mode**


PTO : 1


Lift Arms : 2

Skip      1                      2                      Ret

  
Button 1

  
Button 2

  
Button 3

  
Button 4


This page sets the signal used to turn counting on and off in automatic mode. Choose option 1 for signal from PTO drive, and option 2 for signal from Lift Arms. Skip or return both go back to main screen with no changes. If 1 or 2 are selected the next page asks for signal polarity.


**Set Signal Polarity**


12v to Turn on :1


12v to Turn off :2

                    1                      2                      Ret

  
Button 1

  
Button 2

  
Button 3

  
Button 4

Choose option 1 for 12v to enable counting, or option 2 for 12v to disable counting.