



# FIELD MATE®

## Base Area Monitor



# Users Guide and Installation Manual

# FIELD MATE™ USER MANUAL

If you Need to Call Customer Service  
Please complete the following information for future  
reference:

Field Mate Model\* :.....

Serial Number \* :.....

Date Purchased :.....

Place of Purchase:.....

\* The serial/Model Number is displayed in the  
Information Screens of the meter.

Copyright  
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property of G-Tech NZ Ltd. All rights reserved. This  
user's guide may not be , in whole or in part, be copied,  
photocopied, reproduced, stored, or reduced to any  
electronic medium or machine readable form, without  
permission from G-Tech NZ Ltd.

**IMPORTANT:**

**To obtain the highest Precision Surface Area / Work done Measurement:**

- The Speed sensor must be mounted on a wheel that is not subject to slip or spin during the Surface Area Measurement mode. ie: When not in Hold mode.
- Straight line operation is best suited to surface area measurement as tight turns of implement / vehical will result in a lesser or greater number of wheel turns. High precision mesurement is best achieved by working to straight lines.
- Wheel size and implement working width should be measured as required to ensure the sizes used by the meter, reflect the real world sizes of the implement / vehical. It is the users responsibility to ensure the sizes in the meter are correct.
- When Work is not being measured, the meter must indicate this by going into Hold mode. ie: Hold light on, "HOLD" flashing on working screen.

## **Introduction:**

The FIELD MATE Area Meter has been developed to calculate Land area, distance travelled during seed drilling operations. The meter will also record drilling hours and timed stopped. While drilling the meter can display the drilling rate in hectare per hour and if required a low seed alarm can be attached to inform the user that the seed level has reached a certain level. All measurements are in the metric, eg: hectares, kilometers, centimeters, millimeters.

A distance sensor mounted on the input shaft to the colter gearbox. With this single sensor the area meter can work out if the drill is planting or not.

- Enter the DRILLING WIDTH into the meter.
- Enter the DISTANCE TRAVELLED PULSE, which is the distance travelled by the drill each time the magnet on the input shaft to the colter gearbox passes the Distance sensor.

The meter is ready to use when the drill width and distance travelled per distance sensor pulse have been entered, and the meter will measure area drilled, drilling rate, speed etc. When the drill is lifted at the head lands (ie: drilling stops), surface area measurement also stops.

The unit is rugged, reliable, easy to use, fits any seed drill.

## **Warranty :**

1 Year return to factory Warranty on Area Meter, sensors and Downloading support hardware. Please ensure you agree to the warranty conditions before proceeding to purchase this product, read the warranty form at the end of this user guide. Installation wiring to sensors and wear and tear on connectors not covered.

## **EMI Emmission Certification:**

Electro magnetic interference emmission certification are a series of tests that required to be passed before an electronic device can be sold. These test are related to how much electron magnetic radiation is emmitted by an electronic device.

The Area meter has the following certifications and is suitable for sale in the following countries:

| Certification | Countries              |
|---------------|------------------------|
| C-Tick Z874   | New Zealand, Australia |

## **ELECTRICAL SPECIFICATIONS**

### **Pin outs 7 Pin plug:**

| <u>Pin</u> | <u>Colour</u> | <u>Function</u> |
|------------|---------------|-----------------|
| 1          | Black         | Earth           |
| 6          | Yellow        | Speed           |
| 5          | White         |                 |
| 3          | Green         |                 |
| 2          | Brown         |                 |
| 7          | Red           |                 |
| 4          | Blue          |                 |

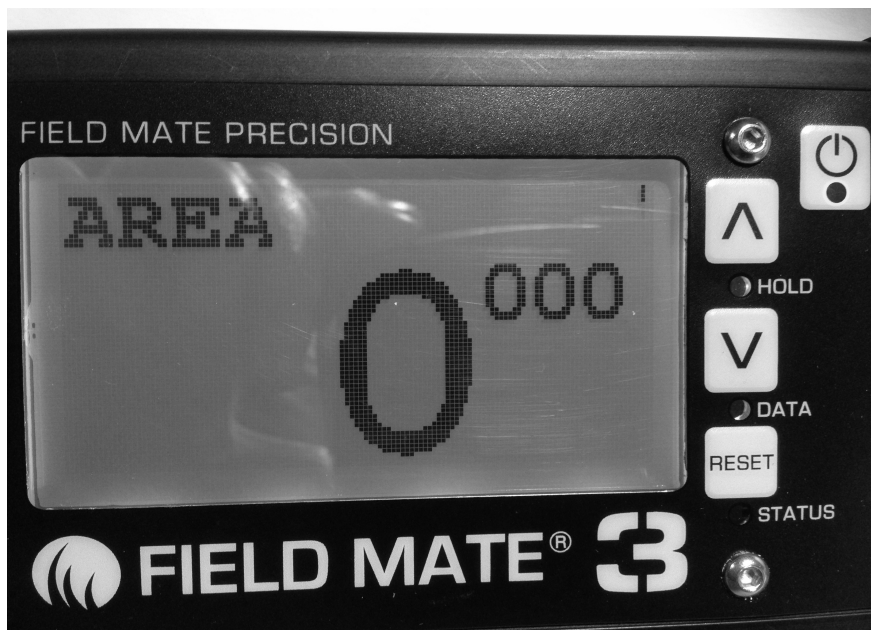
## **Specifications:**

|                |   |                   |
|----------------|---|-------------------|
| Supply volts   | : | 5 – 30 Volts      |
| Current        | : | 25ma              |
| Temperature    | : | -5 to 55 degree/C |
| Input voltages | : | 0 to 30 Volts     |
| Area           | : | 999.99 hect       |
| Distance       | : | 999.99 km         |
| Speed          | : | 200 km/Hr         |
| Wheel Size     | : | 999.9 cm          |
| Width          | : | 9999.9 cm         |

## **Features:**

- Large graphically displayed numbers, easy to see.
- 4 button operation, for quick simple operation.
- Reset button to clear AREA total.
- Backlit display for night time working.
- Dust sealed.
- Moisture resistant.
- Strong Aluminium Case.
- Internal alarm buzzer.
- Bright light indicators.
- Easy fit velco mount.
- Quick transfer from tractor to tractor.
- Automatic data Backup.
- Data storage time with out power 20 years.
- All inputs high voltage protected.

# INSTRUCTION FOR BASE AREA METER



Press to turn on/off. Also press to exit setup mode

Press ▲ to enter adjust Drill width mode.

Press ▼ to enter adjust Drill distance pulse. Meter beeps when sensor is triggered.

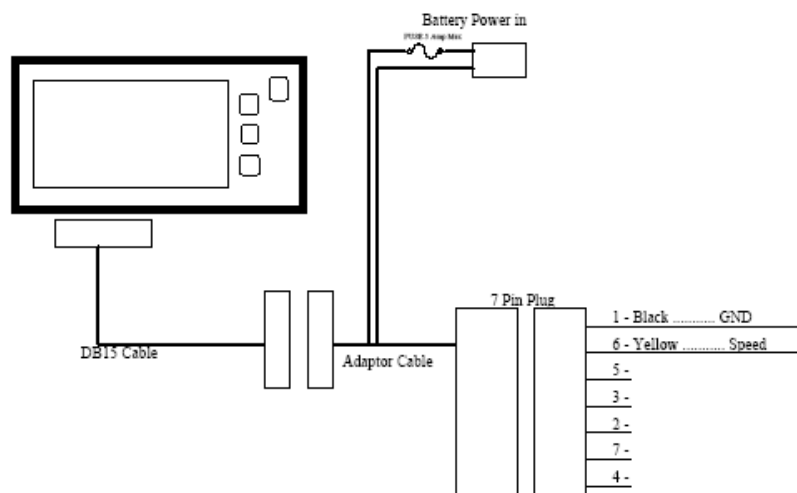
Hold down to clear area.

## **Set drill Width and Set Speed Pulse distance**

Any questions simply give us a call.

All our contact details are at [www.areameters.com](http://www.areameters.com)

# FIELDMATE 3 AREA MONITOR



**“FIELD MATE” EXPRESS LIMITED WARRANTY AND LIMITATION OF LIABILITY AGREEMENT**

Where the word “FIELD MATE™” Area Meter appears it means the “FIELD MATE™” Area Meter circuit board which includes a hard ware component and a leased Firmware component and/or Field Mate Download Application, enclosure and wiring assembly only. Does not refer to any additional wiring added to the “FIELD MATE™” Area Meter system during installation. The Firmware running in the “FIELD MATE™” Area Meter and/or Field Mate Download Application is a zero fee leased copy and is not part of the “FIELD MATE™” Area Meter purchase agreement. The Firmware and/or Field Mate Download Application lease runs for the life of the product. G-Tech NZ Ltd remains the sole owner of the Firmware running in the “FIELD MATE™” Area Meter and/or Field Mate Download Application.

**Express Limited warranty.**

G-TECH NZ LTD warrants the “FIELD MATE™” Area Meter to be free from defects in materials and workmanship for a period of 12 months from the original date of sale to the end user or for a period of eighteen months from the date of factory shipment, whichever is sooner. If the product fails, customers should at their cost return the “FIELD MATE™” Area Meter to G-TECH NZ LTD. At the exclusive option of G-TECH NZ LTD , to either :

- (a) Repair the “FIELD MATE™” Area Meter .
- (b) Replace the “FIELD MATE™” Area Meter .
- (c) If G-TECH NZ LTD is unable to replace / repair or correct firmware or hardware errors, G-TECH NZ LTD will refund the price paid for the “FIELD MATE™” Area Meter .

These are your sole remedies for any breach of warranty.

The warranty does not apply to “FIELD MATE™” Area Meter’s which have been improperly installed, subjected to extremes beyond the limits of G-TECH NZ LTD specifications, or which have been physically damaged. Nor does it apply to “FIELD MATE™” Area Meter’s found to be defective due to abuse, electrical discharge, under temperature, over temperature, improper power application , damage resulting from acts of war or any damage incurred due to acts of nature, salt or fresh water immersion or spray, or improper or unauthorized repair. Freight charges for products returned to G-TECH NZ LTD should be pre-paid by the customer. G-TECH NZ LTD will prepay freight charges for returning the “FIELD MATE™” Area Meter to the customer, provided that the “FIELD MATE™” Area Meter proved defective under the terms and conditions of the warranty.

Note:  
Non G-TECH NZ LTD authorized individuals are discouraged from performing repairs on G-TECH NZ LTD products. Opening of the product by unauthorized individuals will void the product warranty. Damage incurred as a result of non G-TECH NZ LTD service attempt will be considered abuse and repairs will not be covered under warranty or standard repair pricing by G-TECH NZ LTD .

**Limitation of liability**

In no event will G-TECH NZ LTD or any person involved in the creation, production or distribution of the G-TECH NZ LTD “FIELD MATE™” Area Meter be liable to you on account of any claim for any damages including any lost of profits , lost savings, or other special, incidental, consequential, or exemplary damages, including but not limited to any damages assessed against or paid by you to any third party, rising out of the use, liability to use, quality or performance of the G-TECH NZ LTD “FIELD MATE™” Area Meter , even if G-TECH NZ LTD or any such person or entity has been advised of the possibility of damages or for any claim by any other party. ***G-TECH NZ LTD total liability under any provision of this agreement is in any case limited to the amount actually paid by you for the “FIELD MATE™” Area meter.***

**Description of other rights and limitations.**

**Limitations on reverse engineering, Decompilation and Disassembly.** You may not reverse engineer, decompile, disassemble or upload the Firmware.

**Rental.** You may not rent or lease the “FIELD MATE™” Area Meter .

**Copyright.** All title and copyrights in and to the “FIELD MATE™” Area Meter , the accompanying printed material and copies of the firmware are owned by G-TECH NZ LTD. You may not copy the printed material accompanying the “FIELD MATE™” Area Meter . All rights not specifically granted under this agreement are reserved by G-TECH NZ LTD.

**ACCEPTANCE OF TERMS**

I the under signed Purchaser of the “FIELD MATE™” Area Meter computer have read the above Warranty and Limitations of liability Agreement and agree to the conditions and limitations as stated above.

Unit Serial Number : .....

Start Date of Agreement : .....

Purchaser Company Name : .....

Purchaser Address : .....

Purchaser Name Printed : .....

**Purchaser Signed** : .....