

## Set Up & Operating Instructions for the Survmaster 3 PC Odometers

### Wiring:

- If you are fitting this unit with any sensor other than the **CANBUS Interface (BR57) + CANBUS Plug Kit (BR45)** please follow the wiring instructions below:
- Connect up to the vehicles 12V power supply as directed by the label on the black power lead coming out of the base of the odometer or Plug Kit (BR43). This is normally BROWN to +12V and GREEN/YELLOW to -12V. **This unit should NOT be used directly from a 24V supply.**
- Connect straight to the vehicles battery posts **via a 2 Amp fuse** (Not Provided) on the live (+12V) wire.
- The BLUE wire, if present, is not used.
- The Sensor is connected to the grey cable coming out of the base of the odometer (or socket if BR43 is being used) as directed by the separate sensor instruction sheet showing how to wire the exact type of sensor you have chosen.



**BRSM3PCPK**

### Calibration:

- The meter is calibrated to be accurate on any vehicle fitted with any type of Brantz sensor and using any wheel size or gearing by means of the three push-wheel switches marked 'CALIBRATION'.
- If the meter is to measure in hundredths of a Kilometre/Mile the push-wheel switch needs first to be set to 000.
- If the calibration digits are set to 000 when you switch the meter on the letter 'CAL' will appear in the upper window
- At the start of an accurately measured Kilometre/Mile, press the Zero rocker button to ensure the lower counter reads 000 and then return the rocker switch back to its normal central position.
- Drive the measured distance and stop accurately at the end of the distance – Note the figure that comes up on the lower readout. **(This is the Calibration Figure for this particular vehicle)**
- Enter this figure into the calibration push-wheel switches on the front of the odometer. e.g. If the readout is 567 set the push-wheel switches to 567. N.B. If the readout is greater than 999 i.e. if during your drive the 3 digits go past 999 and start counting again, a **Pre-Scaling Interface (BR5)/Dividing Pre-Scaler (BR5-2A)** is required – please contact us on 0044 (0) 1625 669366.
- The accuracy can be confirmed by re-running the measured distance with the entered calibration figures, after zeroing the readout. The meter should read exactly 1.000 in the lower window and 001.000 in the upper window
- If several wheel sizes and gearings are available for the vehicle; repeat the calibration procedure for each combination and note down the different calibration figures. Remember differing tyre pressure affects accuracy – we recommend being kept within 10% of manufacturers recommended pressures.

### Use/Controls:

- The tripmeter is switched on by use of the switch marked **METER ON** on the front of the odometer.
- When the switch is moved from position '0' to the '1' position the meters digits will light up.
- Switching the button marked **REVERSE** from the '0' to the '1' position will cause BOTH read-outs to count downwards.
- Switching the button marked **FREEZE** from the '0' to the '1' position will freeze the upper read-out. Any distance travelled whilst the freeze button is on will **not** be added once the freeze button is released.
- Pressing each of the 2 larger rocker switches upwards into the **HOLD** position will cause the related read-out to hold its figure at that point so notes can be made. Changes to that read-out continue inside the meter so when the hold switch is restored to its normal central position the read-out will adjust to the correct figure as if hold had never been pressed.
- Pressing each of the 2 larger rocker switches downwards into the **ZERO** position will cause the related read-out to zero its figure at that point.
- The 2 push buttons marked **PRESET** are to enter a given figure onto either the top or bottom read-out.
  - Use the **DIG** button to select the digit you would like to change – repeatedly pressing selects each digit in turn until you exit the editing mode on the 11<sup>th</sup> press.
  - Use the **AMEND** button to alter the figure of the flashing digit.
  - To quickly exit the editing mode hold down the DIG button for a few seconds until the next digit stops flashing.
- Following the successful presetting of a value into the read-out, the same value can be quickly entered automatically by first pressing and holding the **AMEND** button and momentarily pressing the **DIG** button. This facility is useful for measuring repeat distances probably counting in the downwards direction.

### Connecting to a Laptop:

- Install the software supplied onto your laptop (or any other road data collection program should you wish). N.B. When you install the Brantz software first of all copy all the information of the supplied disk to your computer to ensure the .dll file is present when you run the program:
  - *DESKTOP*
    - *Survmaster 3PC - Data Collection Program*
      - *Data Collection Programme - Application*
      - *mfc42.dll – Application extension*
- Using a Standard 9 pin RS232 to RS232 Serial Cable (available from Brantz) connect your Survmaster to your Laptop. If required an RS232 to USB converter is available from Brantz – 0044 (0) 1625 669366.
- Open the data Collection Program e.g. Brantz Survey Master and turn on your Survmaster 3 PC.
- You will see the introduction screen.
- Pressing the **ENTER** key changes the screen to the worksheet. N.B. It is important that the Survmaster is connected to the serial port, and that the instrument is switched on before going any further with the program.
- By means of the computer mouse select the serial port ID (port 1 or port 2) at the top right of the screen.
- The Upper Display Window and the Lower Display Window will not show any contents yet.
- Use the mouse to change the '**Sound**' box (bottom centre) to beep, or not, on each key-press.
- Keys 1 to 8 can be defined by a text string. Select '**Define Keys**'.
- Select either the text adjacent to the number key and modify it from the keyboard, or scroll down the pre-typed text and select that text.
- This text will be entered beside the distance readings which will be saved to file during the survey.
- Conduct the survey, noting that control of the Survmaster (presets, zeroing etc) is done on the instrument itself.
- The distance readouts can be downloaded by pressing any of the number or letter keys.
- At the end of the survey the data can be saved to file by means of the '**Save As**' box which will offer a choice of file names and locations.
- The box marked '**Clear All Data**' will empty the current data from the current survey. Ensure that the data file which has just been made has been saved before the '**Clear**' key is selected if you want it to be retained.
- The data file can be viewed by any simple word processor, or one such as 'MS Word' which can manipulate data; or it can be imported into a database such as 'Excel'.
- Exit the program by means of the '**Exit**' button at bottom right.