

Bigmate Syrus 4G Installation Manual

Version Control:

Date	Version	Author	Comments	G Suite versioned
31-08-20	v1.0	Brendan Halliday	Published Version	Y

Contents:

1. Installation Instructions	3
1.1. Hardware Installation	3
1.2. Wiring Harness Connections - Standard	4
1.2.1. Permanent Power Supply	4
1.2.2. Ignition Sense	5
1.3. Syrus 4G Input Connections	5
1.3.1. Digital Inputs	5
2. Contacts and Enquiries	5
3. Data Record Sheet	6
3.1 Calibrations	6
3.2 Digital Inputs	6

1. Installation Instructions

1.1. Hardware Installation

1. Record the device IMEI on the Data Record Sheet ready for activation.
2. Mount the Bigmate Syrus 4G in a clean dry position out of direct sunlight.
3. Connect the antenna leads as shown below:



4. The antenna MUST be mounted with the ‘This Side Faces the Sky’ label facing towards the sky. It is recommended to mount the antenna in a horizontal position clear of any metal or other conductive obstructions
5. Make connections to the vehicle wiring as per 1.2 below and secure the wiring harness out of sight. Cable ties and flexible conduit are recommended.

6. Connect the 4-pin molex harness to the Syrus once all else is done. The antenna MUST have been connected before this point.

1.2. Wiring Harness Connections - Standard

1. The Syrus 4G comes with several pre-terminated wiring harnesses. For a standard tracking installation you will only need the 4 wire harness, wired according to the colors as below:

Function	Colour/s
Ground	Black
Main Power Input	Red
Ignition	Yellow
Input 1	Blue White



1.2.1. Permanent Power Supply

- RED Wire – Connect the RED wire to a +24V or +12V always on supply, via a 5A fast blow fuse. Do not exceed the maximum voltage of +30V.
- BLACK Wire – Connect the BLACK wire to a suitable chassis ground point or directly to the battery negative.

CAUTION

Do not connect the device ground directly to the vehicle battery when an isolator is fitted to the negative terminal. This will make the device chassis serve as a current path and cause large currents to flow through the device. Use a back-up battery that provides permanent power every time the isolation switch is off.

1.2.2. Ignition Sense

- YELLOW Wire – Connect the YELLOW IGNITION wire to a signal that has a voltage over +6.1V when the ignition is on or the engine is running. Do not exceed the maximum voltage of +30V on the IGNITION input.

1.3. Syrus 4G Input Connections

1.3.1. Digital Inputs

On a standard Syrus 4G installation, 1 digital is available:

- Input 1 = White/Blue Wire

The digital input is:

- ON (Active) when connected to NEGATIVE or less than 2 Volts applied;
- OFF (Inactive) when OPEN CIRCUIT or 2.5 to 30 Volts applied;
- Impedance = 50 kilo-ohms.

2. Contacts and Enquiries

For any further details, please contact:

Bigmate Service & Support

Phone: **1300 477 787**
E-mail: support@bigmate.com.au

3. Syrus 4G Data Record Sheet

Please complete the Data Record Sheet for records purposes and call us on 1300 477 787 during business hours to validate the installation.

This can also be submitted by our online forms at <https://support.bigmate.com.au> or sent by email to support@bigmate.com.au at any time. Please note however, we cannot validate an installation submitted to us in this way and only recommend this method if you have completed several successful installations and are sure the device will work.

Device IMEI Number	
Vehicle Company Name	
Vehicle/Plant No	
Installation Technician	

3.1 Calibrations

Engine Hours	
Odometer	
Date and time readings taken	

3.2 Digital Inputs

Digital Input	Description (e.g. Mower PTO)
Input 1	