

GAZEKA

180S

QUICK START GUIDE



March 2023

Troubleshooting



Model 180s Service Guide

vomax.com.au/documentation/gazeeka-model-180s-service-guide/

Owner's Manuals



180s Owner's Manual (AU)

vomax.com.au/documentation/180s-manual-au/



180s (Colt) Owner's Manual (US)

vomax.com.au/documentation/colt-manual-us/



You will need to be logged in to view these documents. Please login first or you may need to scan twice.

USERNAME: technician
PASSWORD: gazeeka



Congratulations on your purchase of a Gazeeka Model 180s microwave moisture system - our most advanced small bale moisture system yet.

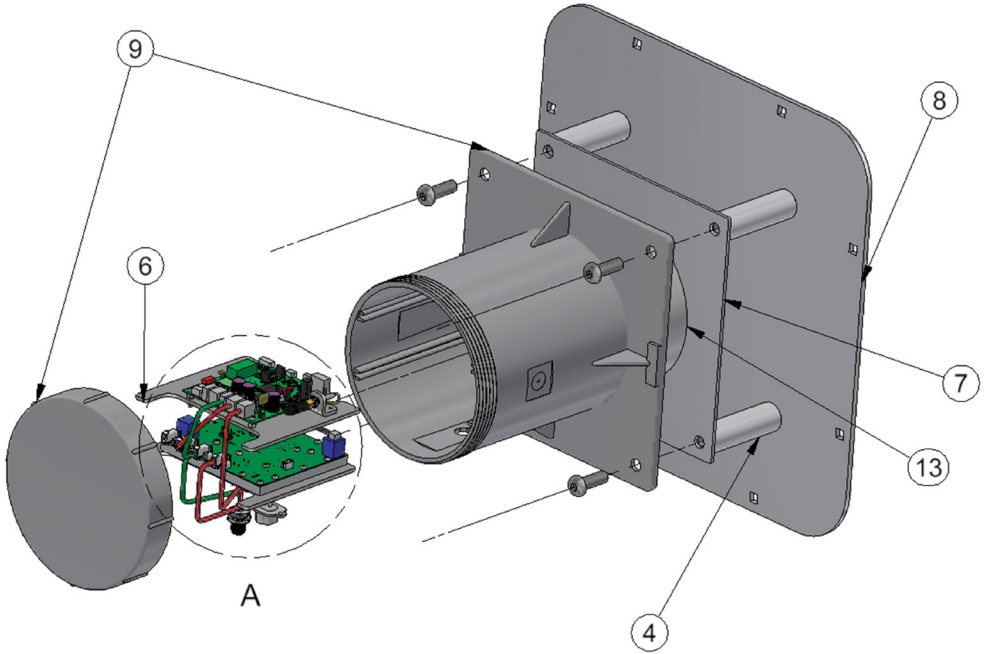
THIS QUICK START GUIDE IS NOT A SUBSTITUTE FOR READING THE MANUAL

The full manual documents and service guide can be downloaded, printed or viewed online via a smartphone, tablet or laptop computer. Please see links on the previous page.

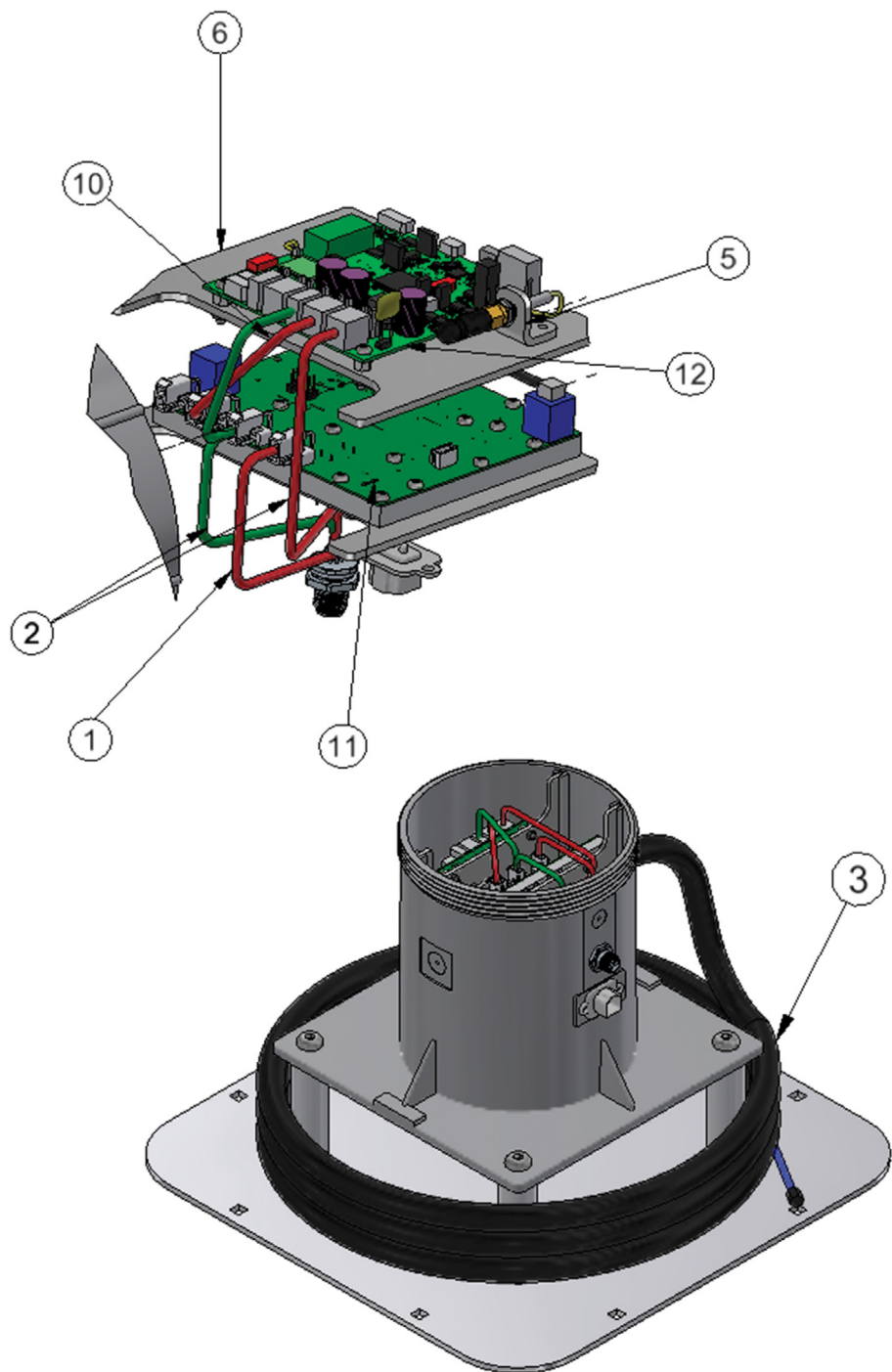
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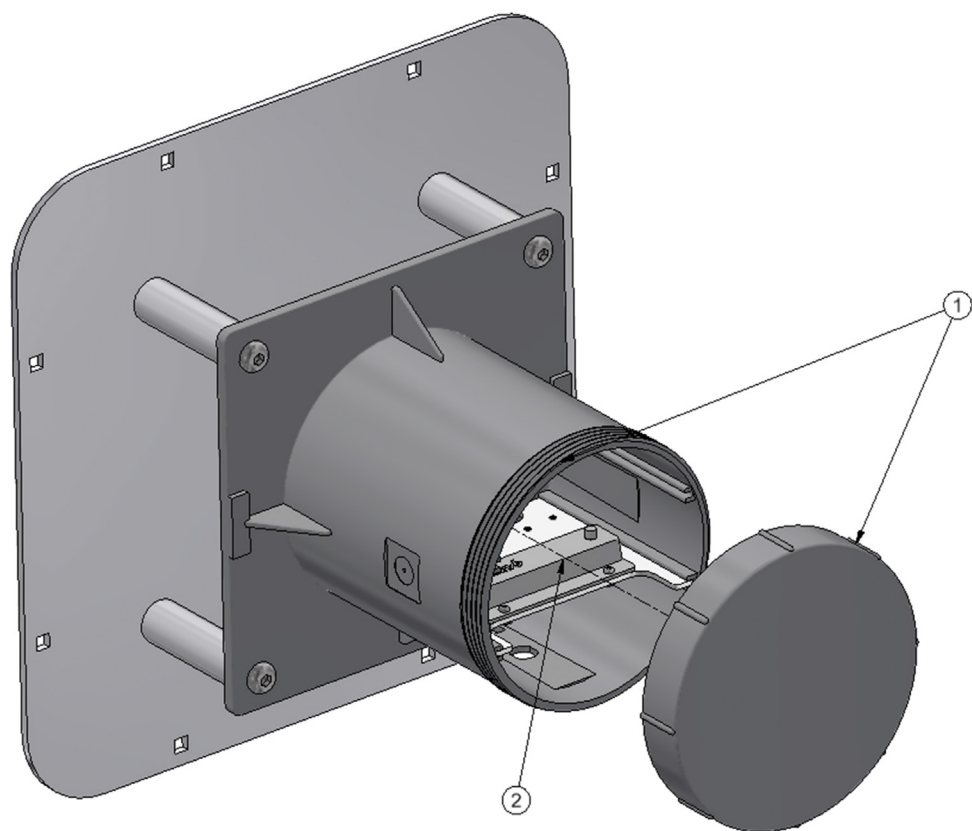
Active Antenna



Item	Part Numbers	Gazeeka Stocked Item	Description
1	180-E02-R00	YES	Panel Mount-Internal Power Harness - Deutsch
2	180-E07-R02	YES	Panel Mount-Internal Loom to Turck M12-8pin
3	180-E88-R00	YES	Microwave cable assembly
4	180-M04-R00	NO	80mm Acetal Standoff
5	180-M13-R01	NO	Bluetooth antenna bracket
6	180-M17-R05	YES	Electronic modules base plate
7	180-M18-R00	YES	Polycarbonate Front Window 219 x 219 x 3 (Opal)
8	180-M42-R00	YES	Polycarbonate bale chamber window 369 x 369 x 5.5 (Opal)
9	180-M45-R00	NO	Housing and Lid
10	870-E41-R00	YES	Internal communication wiring loom
11	180-DI4326-V9p0	YES	VMX-V9p0 Microwave Module
12	180-DI445	YES	Controller Module programmed for model 180
13	180-M16-R01	NO	Microwave antenna dish



Passive Antenna



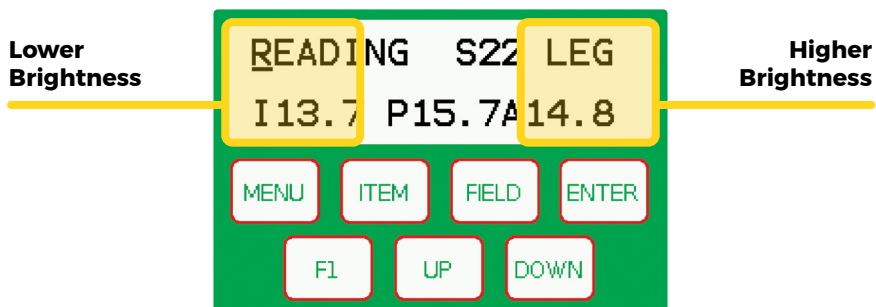
1. YOUR UNIT

Item	Part Numbers	Gazeeka Stocked Item	Description
1	180-M45-R00	NO	Housing and Lid
2	180-CCM-MP	YES	Calibration Check Module with Mounting Plate



Tractor Terminal

Part Numbers	Gazeeka Stocked Item	Description
console-v180	YES	Tractor Terminal for 180s Moisture Gauges



TIP: Terminal brightness can be adjusted by tapping either the left hand-side side or the right-hand side of the **Analyze Mode** screen.

Installation Guides



MF 1840 INSTALLATION GUIDE

vomax.com.au/documentation/model-180-mf-1840-standard-installation-guide/



MF 1840 IN-CHAMBER INSTALLATION GUIDE

vomax.com.au/documentation/model-180-mf-1840-in-chamber-installation-guide/



NH BC5060/5070 INSTALLATION GUIDE

[Vomax.com.au/documentation/model-180-nh-5060-5070-installation-guide/](http://vomax.com.au/documentation/model-180-nh-5060-5070-installation-guide/)



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PASSWORD: gazeeka

3. Setting Up Your Moisture Meter

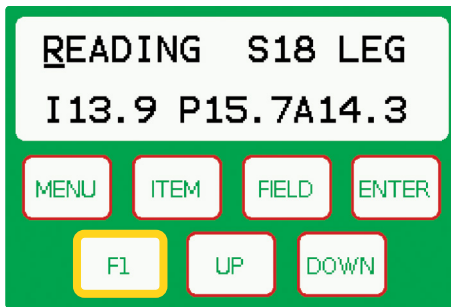
This section assumes that your instrument has been installed correctly, as per the installation guide provided and section 2.2 of the Owner's Manual.

Power up your 180s moisture meter and let the screen load. Your instrument will automatically start up in **Analyze Mode**.

The **F1** key is used to toggle between **Analyze Mode** and **Setup Mode**.

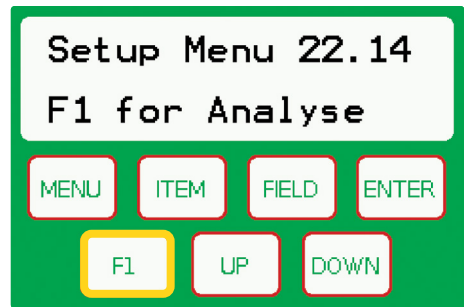
Analyze Mode

For measuring bale moisture



Setup Mode

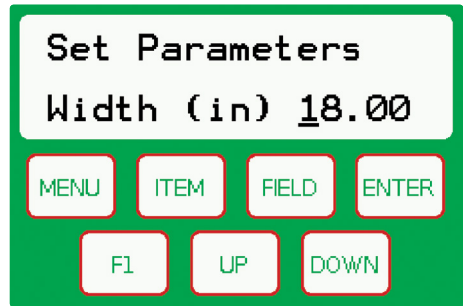
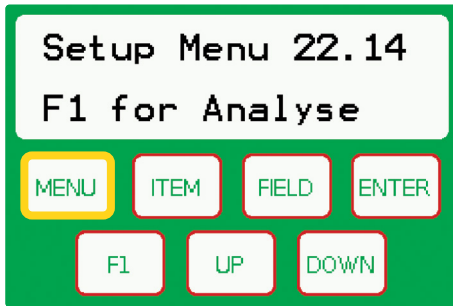
For changing instrument parameters



Editing Instrument Parameters

The first step when setting up your instrument is navigating to the **Set Parameters** menu, this is where the key system settings reside.

1. Enter **Setup Mode**.
2. Use the **MENU** key to navigate to the **Set Parameters** screen.
3. Use the **ITEM** key to cycle through each page of the Set Parameters menu.
4. To change a parameter, use the **UP** and **DOWN** keys to adjust the value and the **FIELD** key to move the cursor.



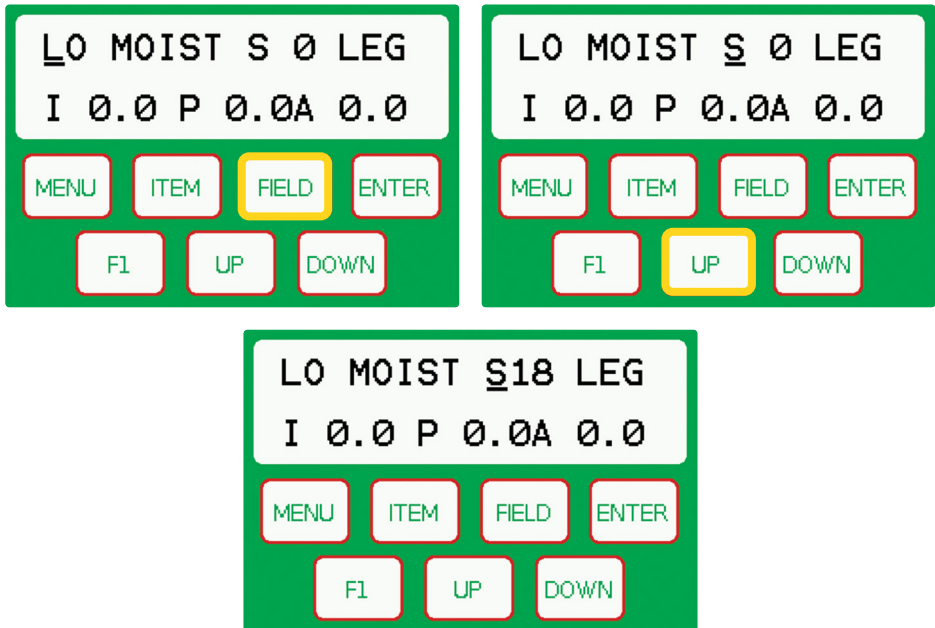
Width (in): width of the hay bale (inches).

The remaining parameters can be left as default, unless otherwise advised by a registered Gazeeka technician.

Moisture Alarm Level and Crop Type

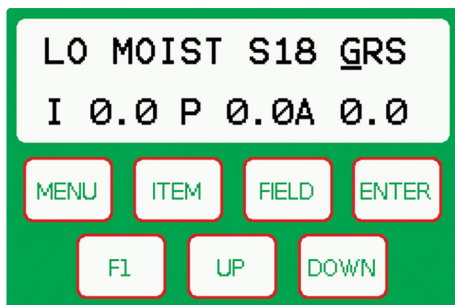
Now is a good time to edit the moisture alarm level and crop type to suit your scenario. This can be done by using the **FIELD** key to move the cursor under the “**S**” (alarm level) and then using the **UP** and **DOWN** keys to change. The same can be achieved for the crop type, which is just to the right of the alarm level (three letter abbreviation).

As shown below, the moisture alarm has been set to 18 (**S18**). Therefore, when the moisture is 18 or higher (instantaneous [I]) an alarm will sound. If SXX is set to 0 (**S 0**) the alarm function is turned off. To edit this value, use the **FIELD** key to move the cursor under and use the **UP** and **DOWN** buttons to increase/decrease the number.



Continued

Using the appropriate calibration equation for the type of hay you are baling will give the best results. To change the calibration equation, you'll need to select the crop type that best suits the crop being baled. To change crop type, use the **FIELD** key to move the cursor under crop type (three letter abbreviation) and use the **UP** and **DOWN** keys to change.



Calibration Equations

The **Universal** calibration equation can be used at any time, but using the appropriate calibration equation for the type of hay you are baling will give the best results. The current calibrations are:

UNI	Universal	Suits all crop varieties
LEG	Legume	Lucerne (alfalfa), vetch etc.
GRS	Grass	Ryegrass, fescue, Rhodes, pasture etc.
CER	Cereal #1	Oats, wheat, barley etc.
CER2	Cereal #2	Reserved – but works well in pea straw

Analyse Mode Screen Explanation

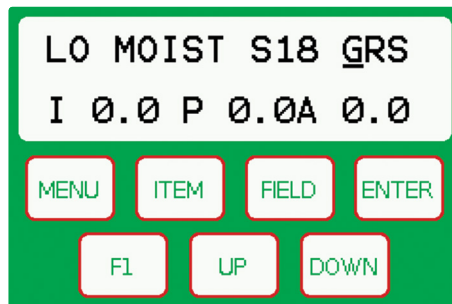
The analyse screen displays current status (top left) and moisture values (bottom row). Statuses are updated depending on current operation. Typical operating statuses are **LO MOIST** (moisture is low – e.g., no bale or very dry hay), **WAIT** (waiting for bale to completely cover both antennae, so that all the signal is going through the bale and not around it) and **READING** (bale is present and being analysed).

The moisture values all appear in the bottom row of the screen and consist of:

Instantaneous (**I**): this is often referred to as the now or immediate moisture and is updated every 2 seconds of analysis period.

Peak (**P**): maximum moisture reading for an analysis period.

Average (**A**): average moisture reading over an analysis period.





4. Air Calibration

Doing an air calibration is one of the most important steps when setting your Gazeeka moisture gauge up for baling.

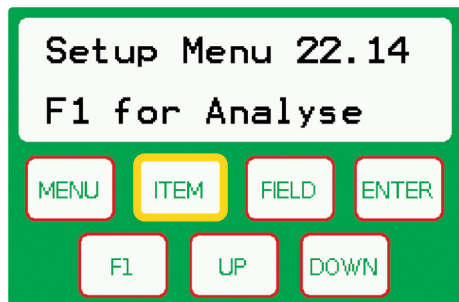
This not only sets the reference point for the moisture readings, but it is also a good system check to ensure your unit is operating correctly. An air calibration must be carried out at the time of installation and should also be carried out if there are any physical changes to the installation such as changing balers, microwave cable, microwave board etc.

It is recommended that you do an air calibration at the start of each season.

Before you start:

- Make sure instrument has been on for at least 10 minutes.
- Make sure the air path between the antennae is clear (i.e., no bale, chains, tailgate or anything else obstructing the microwave path).
- **Ideally, the bale chamber should be completely empty of hay or at the very least the end of the bale should be 600mm/2' from the antenna windows.**

Calibration Procedure:



1: Press ITEM key for Air Cal.



2: Press ENT key to begin.

Setup Menu

Item	Explanation
FI for Analyse	Enters the analyse mode. Displays software version
ENT for Air Cal	Press ENT to calibrate the instrument on an air path between antennae
ENT for Test	To do this test, the Calibration Check Module (CCM) in the passive antenna needs to be used. Refer to the “Calibration Check Module” section of the Owner’s Manual

Set Parameters

Item	Explanation
Width (in)	Width of the bale
Accum	Is this instrument mounted on an accumulator?
CAN Mode	This tells the instrument what it is communicating with if the CAN port is being used.

Service Menu A

Service Code	Proprietary
Voltage	Reads the voltage at the microwave electronics

Contact info

Still need help? Feel free to get in touch during local business hours:



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