

Flightcell

DZMx Setup Instructions

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1. Product & SIM Registration

Navigate to

<https://www.flightcell.com/support/product-registration-and-warranty> and click on the 'Register product' button to register your DZMx. It will only take a few minutes to complete this form.

It is essential to register your DZMx to activate your warranty and you will receive important product and the latest firmware information.

Iridium® SIM

Unless Flightcell has been requested not to do so, we will install an Iridium® SIM card in the DZMx for all units that ship with a satellite modem. Ensure you complete the 'Iridium® SIM Card Registration' section of the product registration form, so your Iridium® service provider can support the unit and commence your service.

Cellular SIM

Choose a cellular service provider with a voice and/or data plan that best supports your operation and purchase a standard full-sized SIM. You may be required to provide the DZMx IMEI number that is printed on the label of the DZMx rear panel.

2. Install the DZMx

Installation should be completed by a qualified Avionics Technician.

The DZMx installation manual is available from:

<https://www.flightcell.com/support/documentation/dzmx>

Connecting to DZMx Connect via Wi-Fi

DZMx Connect provides wireless access for voice calling, SMS and SBD messaging, and DZMx configuration. To utilize DZMx Connect, open a web browser, type in **192.168.2.1** in the address bar, and press enter. For easy access, add a browser shortcut to the home screen of your iOS or Android device. After typing 192.168.2.1 in your preferred browser, select either the share button or three dots on the top right side of the browser. Scroll down and select 'Add to home screen.' Here you can edit the shortcut name, i.e. DZMx Connect

3. Configure the DZMx

The DZMx has been pre-loaded with a default configuration, however settings can be easily changed to suit the user. The DZMx can be configured directly from its keypad or, once installed, it can be easily configured with a laptop, PC, or smart device as follows:

DZMx units with operational WiFi

If the DZMx is equipped with WiFi you can configure and use the DZMx from a smart device. If your DZMx has built in WiFi and it is operational, it will have a 'W' at the end of the 'H/W part no: e.g. 'DZP_04-800-BPW'. It will also have a 'WiFi Enable' configuration menu option under: 'Hardware Configuration/Wireless and Networks'.

Laptop connection

1. Follow the 'WiFi setup instructions' available from:
<https://www.flightcell.com/support/documentation/dzmx>
2. Type '192.168.2.1' into the address bar of a web browser to open DZMx Connect.
3. Configure the DZMx according to the DZMx installation manual. A copy of the manual is available from:
<https://www.flightcell.com/support/documentation/dzmx>

Smart Device Connection

1. DZMx WiFi setup instructions are available from:
<https://www.flightcell.com/support/documentation/dzmx>
2. Configure the DZMx according to the DZMx installation manual.
A copy of the manual is available from:
<https://www.flightcell.com/support/documentation/dzmx>

DZMx units without operational WiFi

1. Connect a laptop or PC to the DZMx Ethernet port (via supplied USB/Eth connector box) with an Ethernet cable.
2. Type '192.168.4.1' into the address bar of a web browser to open DZMx Connect.
3. Configure the DZMx according to the DZMx installation manual.
A copy of the manual is available from:
<https://www.flightcell.com/support/documentation/dzmx>

4. DZMx Quick Start Guide

1. Switching the DZMx on and off

The DZMx will automatically switch on when aircraft power is turned on and switch off when aircraft power is turned off.

2. Making a voice call

Your DZMx installation uses the Iridium satellite network or a cellular network to call any national or international telephone number. This includes landlines, cell phones and satellite phones.

To dial a call manually:

Press the SAT key  or the CELL key  to select the network.

Enter the number to be dialed. **Note:** press and hold the 0 key for the international dialing prefix +, then key in country code, area code and number.

Press CONNECT. 

To call a number stored in the DZMx phone directory:

Press DIR  to open the phone directory.

Scroll to the number to be called, using the UP  and DOWN  arrow keys. [Continues over]

Press SAT or CELL.

To call using DZMx speed dial keys:

The SPD1, SPD2 and SPD3 speed dial keys use the first three numbers in the DZMx phone directory.

Press the speed dial key for the required number.   

Press SAT or CELL.

To end a call: Press END. 

3. Answering an incoming voice call

When an incoming call is received, headset ring tone is heard and the DZMx display flashes.

To answer a call: Press CONNECT.

To reject or end a call: Press END.

4. Use position reports and distress messages

To send a manual position report: Press MARK  to send current GPS position.

To send a Distress report: Press and hold EMER  for 1.5 seconds. When the DZMx display flashes 'Distress Mode', distress reports are sent at pre-programmed intervals. [Continues over]

To cancel Distress reports: Press and hold EMER for 1.5 seconds until the display stops flashing.

5. Sending a preconfigured text message

To send a preconfigured message:

Press the MESSAGE key,  then use the UP and DOWN arrow keys to scroll to the required message.

Press SAT or CELL.

Enter the telephone number and press ENTER  to send.

Note: to send a message to a number in the phone directory, you first need to navigate to the directory number and then press the MESSAGE key.

6. Reading an incoming text message

The DZMx display flashes and announces that a message has been received.

To read an incoming message:

Press ENTER.

Use the UP and DOWN arrow keys to scroll through the message.

[Continues over]

To read a stored message:

Press and hold the MESSAGE key.

Use the UP and DOWN arrow keys to scroll to the required message.

Press ENTER to open the selected message.

To exit the message screen: Press END.

7. Turning HD Tracking on or off

To turn HD Tracking on or off:

Press MENU. 

Use the DOWN key to scroll to 'Tracking', then press ENTER.

Scroll to 'HD Tracking Enable', then press ENTER to select.

Scroll to 'Yes' (to enable) or 'No' (to disable) HD Tracking.

Press ENTER to confirm your selection.

[Continues over]

8. Activating Geofencing

Geofencing suspends GPS tracking within a certain number of nautical miles (NM) of your current location. The NM radius is configured in the Tracking Menu settings. Refer to the Operators Manual for details.

To activate Geofencing:

Press and hold the **MENU** key until 'Geofence Activated Tracking Suspend radius is 'X' NM' appears (where 'X' is the preconfigured distance in nautical miles). Geofencing will automatically be deactivated when the aircraft leaves the geofenced location.

9. Aerial Firefighting Application calibration using a suspended bucket

Calibrating the Fill Level or Bucket Load Cell input Once the Fill Level or Bucket Load Cell input setting has been configured to use one of the inputs (see "DZMx Inputs" in the Installation Manual), the input must be calibrated in order for the DZMx to produce the correct volume value when measuring the input voltage:

- » Select Fill Level or Bucket Load Cell from the Hardware Config>>Input Configuration menu to display the input configuration options.
- » With the tank empty, or with no water in the bucket (but with the empty bucket suspended), select Calibrate Low Level from the Fill Level menu and press ENTER to calibrate the empty tank/bucket to the current input voltage. Done on first flight in the hover.

» With the tank full, or mostly full, or with a full bucket suspended, select Calibrate High Level from the Fill Level or Bucket Load Cell menu and press ENTER. This must be done on the first fill.

The DZMx will then prompt for the current volume in the tank or bucket. After entering in the amount, press ENTER to complete calibration.

If using a load cell, and reading the load off the load cell to enter into the high calibration setting, remember to take off the weight of the bucket from the displayed weight. The volume entered cannot be higher than the full tank/bucket volume specified in the Tank Volume or Bucket Volume setting.

» With both full and empty limits calibrated, the fill level and bucket load cell input will measure the correct water volume.

Note that if any part of the system is modified, i.e., changed to using a different bucket, then the system must be recalibrated. This can be performed while doing the first fill using the new bucket.

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