NO MORE MANUAL RECORDS.

Record and Send Flight, Load and Event Data Automatically.

DZMx

Introducing the Flightcell DZMx Application for Agricultural Operations:

Flightcell's Agricultural Application provides for automatic recording and real time reporting of key events along with position information.

- Optimise load data for improved aircraft and job management improving output and safety margins.
- Process load weight and configuration data for optimal information management.
- Cross check totals on the go.
- Utilise cellular and satellite networks for transmitting data in real time.

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Flightcell®

ALWAYS CONNECTED.

Flightcell DZMx improves capability for Ag operations.

Agricultural operations with DZMx:

Flightcell DZMx is the worlds smallest, lightest and smartest satellite and cellular communications system, used worldwide by aircraft operators to enhance operational performance.

Flightcell's new Agricultural App enables operators with installed DZMx systems to provide recorded data automatically back to the flight office without any need for Pilot intervention.

This data is taken automatically from a combination of onboard information and external wireless feeds from loaders.

Information on how much product is in each load is available on screen before each take-off, and it is then sent along with the aircraft track information

Other information such as job number, pilot and configuration is also transmitted back to base.

When combined with an aircraft management software package such as Aeronet or Air Maestro this automated data can virtually do away with manual records.

DZMx provides the following data:

- Time stamped aircraft tracking data
- Engine start up and stop (run time)
- Take off and landing
- Load data (weight) per lift
- Job and daily totals
- Manual aircraft log (engine records) and aircraft config
- Pilot duty times

DZMx SPECIFICATIONS

ELECTRICAL		
Input Voltage		12 – 32VDC
Power Supply Current		~1A @ 28VDC
ICS to DZM Audio	Input Levels	20mVrms to 1.15Vrms, adjustable
		775mVRMS nominal
	Input impedance	600Ω
Microphone bias voltage		12V via 2.2kΩ
DZM to ICS Audio	Output levels	Up to 5Vrms, adjustable
		775mVRMS nominal
	Output impedance	150Ω
Backlighting Control		AC/DC, 0 - 32V
		User calibrated High/Low set-points
Backlight colour	Green 520nm.	Designed for NVIS compliance.
GPS	Antenna bias voltage	5V
	Antenna current	Up to 100mA
	Sensitivity	-162dBm (with Flightcell Antenna)
	Time to first fix	26s

MATERIALS
Aluminium 6061

CONNECTORS	
Mounting fasteners:	DZUS or M5
Main connector:	1 x D25 male plus 1 x D25 female **or** 1 x D38999 male (military versions)
Antenna connectors:	Transceivers TNC
	GPS: BNC

DIMENSIONS	DZUS mount		GA mount	
Faceplate width:	146mm	5.75"	158mm	6.22"
Body width:	126mm	4.96"	126mm	4.96"
Faceplate height:	57mm	2.24"	60mm	2.36"
Body height:	54mm	2.13"	54mm	2.13"
Depth (front to rear faces):	110mm	4.33"	110mm	4.33"

WEIGHT
580-720g (1.21-1.59 lbs) depending on configuration

DATA INTERFACES	
Interface	**Description**
RS232	3-wire serial port
RS-485/422	4-wire serial port
USB-Micro AB Connector	OTG (On-The-Go) USB port
USB-via D25 or D38999	DZMx is USB Host
10/100 ethernet	Ethernet port
General purpose inputs	5 (3 x digital, 2 x analogue)
General purpose outputs	2 outputs

CERTIFICATION
DO-160G sections 4-9, 15-21, 25.

ENVIRONMENTAL	
Built to IP54 (Civ), IP65 (Mil)	
Operating temperature:	-40°C to 70°C

DASH NUMBERS
DZP_04-000 DZMx Civil no Transceiver
DZP_04-100 DZMx Civil with Satellite
DZP_04-300 DZMx Civil with Satellite & 3G Cell
DZP_04-020 DZMx Military, NVIS A, no transceiver
DZP_04-120 DZMx Military, NVIS A, with Satellite
DZP_04-320 DZMx Military, NVIS A, with Sat & 3G Cell

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