

IN THE FIGHT AGAINST FIRE PRECISE DATA CAN GIVE YOU THE EDGE.

Introducing the Flightcell DZMx Application for Firefighting Operations

DZMx

Flightcell's firefighting application provides for automatic recording and real time reporting of key events, along with position information.

Enhanced event reporting enables more effective use of assets and resources.

Process multiple on-board inputs for optimal fire-fighting information management.

Visualise on-board information for rapid response to changing conditions.

Utilise cellular and satellite networks for transmitting on-board data.



Flightcell[®]

ALWAYS CONNECTED.

Flightcell DZMx improves capability for firefighting operations.

Firefighting with DZMx:

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



Flightcell's new firefighting application enables operators with installed DZMx systems to provide additional vital data to command centres. This data is taken from switches, sensors or controls on the aircraft or firefighting equipment, combined with position and time information from the DZMx's inbuilt GPS, then transmitted over cellular or satellite channels to your selected mapping service provider.

This capability allows aircraft operators to meet U.S., Canadian and Australian firefighting reporting requirements.

Transmitted data provides valuable information to fire controllers, including the location of the fire front or hot spots. Operational data - such as engine and flight time, suppressant delivered, and type of additive used - improves control over the cost of firefighting operations.

Location and activity data provides accurate information on the origin and amount of water used for reservoir owners and firefighting agencies.

DZMx provides the following data:

- ▶ Time stamped aircraft tracking data:
Location, heading, altitude, ground speed
- ▶ Engine start up and stop
- ▶ Hover start and stop
- ▶ Take off and landing
- ▶ Volume and location of water uplifted and released
- ▶ Full and partial release information
- ▶ Additive type used and location delivered



Photos courtesy of Wayne Rigg, CFA and Kestrel Aviation.

DZMx SPECIFICATIONS

ELECTRICAL		MATERIALS		WEIGHT		DASH NUMBERS	
Input Voltage	12 – 32VDC	Aluminium 6061		580-720g (1.21-1.59 lbs) depending on configuration		DZP_04-000	
Power Supply Current	~1A @ 28VDC	CONNECTORS		DATA INTERFACES		DZMx Civil no Transceiver	
ICS to DZM Audio	Input Levels 20mVrms to 1.15Vrms, adjustable	Mounting fasteners: DZUS or M5		Interface		DZP_04-100	
	775mVRMS nominal	Main connector: 1 x D25 male plus 1 x D25 female or 1 x D38999 male (military versions)		RS232 3-wire serial port		DZMx Civil with Satellite	
	Input impedance 600Ω	Antenna connectors: Transceivers TNC		RS-485/422 4-wire serial port		DZP_04-300	
Microphone bias voltage	12V via 2.2kΩ	GPS: BNC		USB-Micro AB Connector OTG (On-The-Go) USB port		DZMx Civil with Satellite & 3G Cell	
DZM to ICS Audio	Output levels Up to 5Vrms, adjustable	DIMENSIONS		USB-via D25 or D38999 DZMx is USB Host		DZP_04-020	
	775mVRMS nominal	Faceplate width: 146mm 5.75"		10/100 ethernet Ethernet port		DZMx Military, NVIS A, no transceiver	
	Output impedance 150Ω	Body width: 126mm 4.96"		General purpose inputs 5 (3 x digital, 2 x analogue)		DZP_04-120	
Backlighting Control	AC/DC, 0 - 32V	Faceplate height: 57mm 2.24"		General purpose outputs 2 outputs		DZMx Military, NVIS A, with Satellite	
	User calibrated High/Low set-points	Body height: 54mm 2.13"		CERTIFICATION		DZP_04-320	
Backlight colour	Green 520nm. Designed for NVIS compliance.	Depth (front to rear faces): 110mm 4.33"		DO-160G sections 4-9, 15-21, 25.		DZMx Military, NVIS A, with Sat & 3G Cell	
GPS	Antenna bias voltage 5V			ENVIRONMENTAL			
	Antenna current Up to 100mA			Built to IP54 (Civ), IP65 (Mil)			
	Sensitivity -162dBm (with Flightcell Antenna)			Operating temperature: -40°C to 70°C			
	Time to first fix 26s						