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.

Expand firefighting data collection for enhanced firefighting effectiveness and improved management of 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 the worlds 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 DZXMx 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 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		
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

www.flightcell.com