

# TFE731 Engine Remote Diagnostics



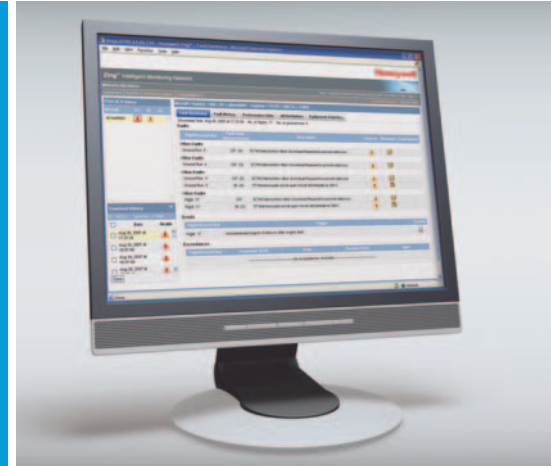
ADVANCING OPERATIONAL  
CONTROL AND PERFORMANCE

**A Service Powered by Zing™  
Intelligent Monitoring Network**

**Honeywell**

# Zing™ Intelligent Monitoring Network

The Honeywell Zing system creates a high speed information connection between operators and their aircraft delivering capabilities to manage fleets more efficiently.



Advanced telematics technologies allow Honeywell to provide remote connectivity to vehicle computers that is integrated with web based health and troubleshooting tools. Aircraft operators, fleet managers and maintenance departments can rely on Zing information to provide aircraft operational status in most cities worldwide.

## TFE731 Engine Remote Diagnostics Service

The first subscription service delivered via Honeywell's Zing network is a significant support advancement for our TFE731 turbofan engines. Engine Condition Trend Monitoring (ECTM) data, that is captured and stored today by the Digital Electronic Engine Controllers (DEECs), can be transmitted wirelessly using Zing systems post-flight. Our systems will monitor and report the latest engine information and status to the operator to ensure the highest availability possible. In the event that the system detects an engine fault or exceedance, the TFE731 Engine Remote Diagnostics Service will assist in identifying the issue, determining the criticality and suggesting test and repairs. The service does this all without sending a maintenance person and laptop to the airplane.

## Features

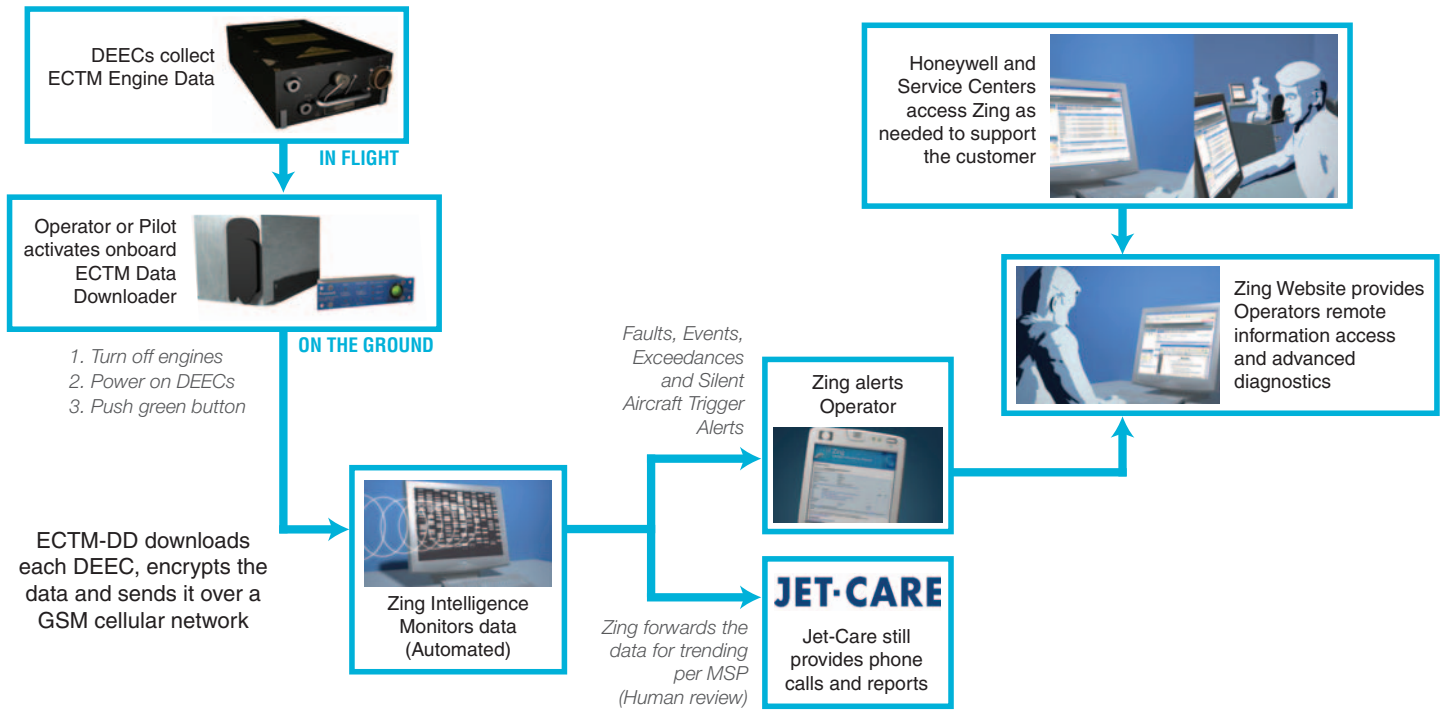
- Wireless connectivity for remote access to engine data
- Secure internet access to current engine status and historical information
- Exception alerts when problems are detected
- Automated diagnostics suggest test and repairs linked directly to the latest technical publications
- Information sharing with Honeywell experts and service centers

## Benefits

The TFE731 Engine Remote Diagnostics service:

- Allows for DEEC data downloads in minutes, at home or away, and without a laptop
- Eliminates ECTM buffer full faults with regular usage
- Facilitates more frequent downloads and trend analysis to minimize unscheduled event risks
- Reduces engine troubleshooting time by up to 60%
- Eases apprehension around engine operation prior to next scheduled maintenance event

## How the Zing TFE731 Engine Remote Diagnostics Service works



### Reduce the Labor Required to Download TFE731 ECTM Engine Data

This new service turns downloading your engines' data into a 5 minute task that can be performed conveniently at home or away without a laptop and cable harness. It becomes an easy task that can be incorporated into a post-flight routine. The service utilizes Honeywell's ECTM Data Downloader (ECTM-DD) which is installed on the aircraft via STC. The TFE731 Zing service plan allows for unlimited data transfers so the operator can download as frequently as desired and eliminate any chance of an ECTM buffer full indication. The engine data is sent wirelessly to the Zing system which monitors the data and also forwards it to Jet-Care for trend analysis if the engines are subscribed to their service.

### Minimize the Impact of Unscheduled Engine Events

In the event of an engine fault, event, or exceedance, the Zing system can be activated by a pilot or maintenance technician to transmit ECTM information to the Zing system after the aircraft lands. Zing email alerts and analysis are triggered upon receipt of the data giving maintenance a head start in addressing the event. The Zing website walks the user through the current engine status, message severity levels, suggested maintenance procedures, manual sections and parts derived from the comprehensive engine data all within minutes. The right parts can be taken to the aircraft on the first trip. Equipping your aircraft with the TFE731 Engine Remote Diagnostics Service can save hours or even days of downtime providing a faster return to service and reducing the expense of alternate transportation.

### Improve the Accuracy and Timeliness of Jet-Care Engine Trending Analysis

Engine trend analysis is most effective when timely and sequential data sets are used. The Zing system ensures no downloads are missed in the sequence and makes it easy for operators to send data as frequently as desired resulting in the most proactive engine trend notifications possible.

## ECTM Data Downloader (ECTM-DD) Hardware Specs:



Specifications	Value
ECTM-DD Unit Dimension	8.1" L x 4.3" W x 4.5" H
ECTM-DD Unit Weight	3.0 lbs
Remote Control Panel Dimensions	4.9" L x 1.2" W x 1.1" H
Remote Control Panel Weight	0.8 lbs
DEECs supported	Up to 3
Power	28VDC Aircraft Power

## STC Applications



Hawker 750/800/800XP/850XP

## Find out more

For more information, please log onto:  
[www.honeywell.com/zing](http://www.honeywell.com/zing)

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## Honeywell Aerospace

1944 E. Sky Harbor Circle  
Phoenix, AZ 85034  
U.S. Toll Free: 1.800.601.3099  
International Tel: 602.365.3099  
EMEA Toll Free: 00.800.601.3099  
EMEA Direct Dial: 420.234.625.500  
[www.honeywell.com](http://www.honeywell.com)

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