

# **EGPWS** **HELICOPTER** **OFFSHORE** **SAFETY** **ENHANCEMENTS**

Increase the safety and situational awareness of offshore operations



**Honeywell**



Over the past 40 or more years, Honeywell's Ground Proximity Warning System (GPWS) and Enhanced Ground Proximity Warning System (EGPWS) have helped to dramatically reduce the occurrence of (Controlled Flight Into Terrain) accidents and fatalities. Honeywell, in its commitment to improving the safety of aerial operations, have worked collaboratively with offshore operators and safety-focused association HeliOffshore in the implementation of safety enhancements that have been demonstrated to provide earlier alert of a potential collision.





# OFFSHORE ENHANCEMENTS IN VERSION -036

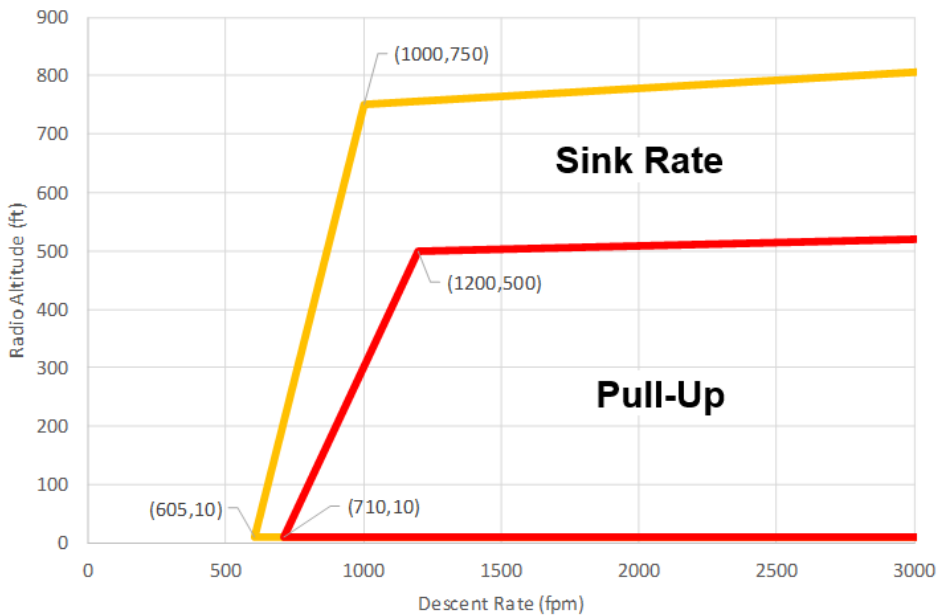
Offshore helicopter operations bring with them a unique set of challenges, challenges that Honeywell is ready to meet with the -036 update to its already successful MK XXII EGPWS. Honeywell has developed the -036 update to address risks unique to offshore operations. The enhancements implemented in -036 have been derived from safety recommendations from the UK CAA and the offshore helicopter industry.



## NEW OR UPDATED ALERTS

### 1. Offshore Mode 1/3A:

Parameters for “Sink Rate”, “Pull Up, and “Don’t Sink” alerts have been optimized for offshore operations taking into account factors such as an elevated helipad. Boundary for “Sink Rate” caution has been raised; boundary for “Pull Up” warning has been raised.



*Expanded Envelopes for Additional Protection*

### 2. Offshore Mode 3B:

This is a completely new function. It warns pilots of a drop in airspeed during takeoff. This is extremely useful when taking off in heavy winds such as commonly experienced by offshore pilots. Mode 3B is enabled at installation time with a configuration option.

### 3. Offshore Mode 4:

The “Too Low Terrain” and “Too Low Gear” cautions are now updated to provide better alerts when approaching oil rig helipads; specifically, the alert envelope was expanded to account for elevated helipads. This mode provides alerts against insufficient terrain clearance with respect to phase of flight and speed using input parameters gear position, airspeed, and radio height.

### 4. Unique Altitude Callouts:

Provides altitude callouts required by EASA CAT.IDE.H.145: an aural callout, adjustable between 100 ft and 160ft and a pilot selectable callout.

## APPLICABILITY

- **Hardware:** MK XXII EGPWS Part Number 965-1595-0XX
- **Terrain Database:** Version 437 or later is required
- **Platforms:** Immediate availability for Leonardo AW139 with Honeywell Primus Epic Phase 7 or 8. For Airbus, Bell and Sikorsky, platforms, please contact your Honeywell Sales representative for additional details on current or future availability.

## IMPLEMENTATION

Update to version -036 can be made on wing. A verification procedure is supplied along with the media containing the software update. Resulting top level part number is 965-1595-036.



*Mode 3B, a reduction in airspeed to below 55 kts after attaining 60 kts generates a visual caution and aural “Check Airspeed”*

**For more information**

Please visit: [aerospace.honeywell.com](https://aerospace.honeywell.com)

**Honeywell Aerospace**

1944 East Sky Harbor Circle  
Phoenix, AZ 85034  
[aerospace.honeywell.com](https://aerospace.honeywell.com)

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