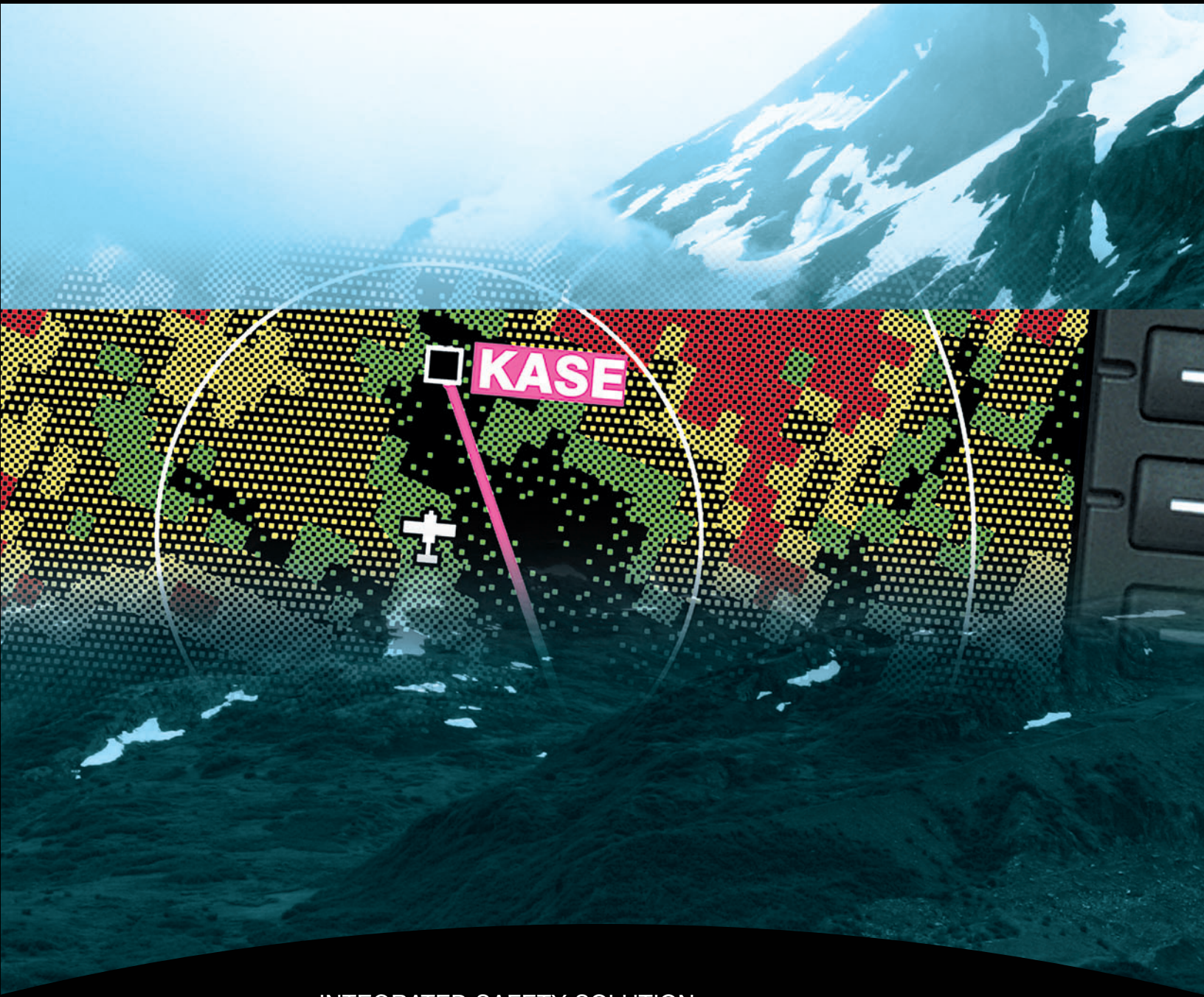


Bendix/King KGP 560 and KGP 860



INTEGRATED SAFETY SOLUTION
FOR GENERAL AVIATION

Enhanced Ground Proximity Warning Systems

Honeywell



The Bendix/King KGP 560 and KGP 860 Enhanced Ground Proximity Warning Systems for General Aviation (GA-EGPWS) enhance situational awareness by incorporating the latest technology, including GPS position and a terrain and obstacle database, to give you a clear picture of the terrain ahead.

Enhanced flight safety through advanced te

Offering a unique combination of look-ahead algorithms, comprehensive terrain and obstacle databases, and multi-level alerting capabilities, our GA-EGPWS systems provide enhanced situational awareness and the most advanced protection available against one of the leading causes of General Aviation fatalities – Controlled Flight Into Terrain (CFIT).

Setting the Standard in Terrain Avoidance

Our GA-EGPWS systems provide enhanced situational awareness and the most advanced protection available against CFIT. Both the KGP 560 and KGP 860 use derivatives of the algorithms currently in service with the air transport fleet to virtually eliminate nuisance warnings. Each GA-EGPWS accomplishes CFIT protection by combining an early alert/warning capability with an optional terrain display, to enhance safety as it improves situational awareness.

Terrain information can be presented on the KMD 550 or 850 Multi-Function Display, a weather indicator or EFIS 40/50. The KGP 860 offers many additional EFIS interface capabilities.

Key GA-EGPWS Features and Benefits:

- **Simple View** – Terrain is represented by different colors, adjusting as your flight path changes, making it easier for you to see what's ahead or below.

Two colors indicate unsafe terrain clearance: red, for terrain well above your aircraft; and yellow, for terrain near or above aircraft altitude.

- **System Looks Ahead** – The EGPWS system uses aircraft position, altitude and flight path information to detect terrain or obstacle threats approximately one minute ahead of the aircraft. A voice alert, "Caution Terrain, Caution Terrain" or "Caution Obstacle, Caution Obstacle," repeats every seven seconds if the flight path continues toward the threat area. Thirty seconds before threat, the voice message will warn to "Pull Up." Voice alerts cease when the aircraft is no longer threatened. Other key benefits found only in our GA-EGPWS systems are a built-in GPS receiver – which eliminates the need for an external source – and sophisticated look-ahead algorithms derived from Honeywell's extensive air transport experience.

- **Excessive Rate of Descent** – The EGPWS provides alerting and warning when the aircraft is descending toward terrain at a high rate for its relative altitude above terrain, giving you plenty of time to react. This mode is active for all phases of flight unless overridden by terrain look-ahead functionality.

- **Exclusive Peaks Mode** – Not found on any other systems, our "Peaks" mode provides additional terrain display features, giving you enhanced situational awareness at any altitude. This information is shown graphically,

in a digital format, by varying the color and intensity of the screen display according to the elevations of the highest and lowest displayed terrain.

- **Altitude Awareness and Monitoring** – The KGP 560 and KGP 860 incorporate the latest in altitude awareness technology. Three separate features combine to offer the most complete altitude information in the industry.

- **Altitude Monitoring:** A Honeywell exclusive feature is our Geometric Altitude computation. Based on GPS altitude, this function cross-references your altimeter reading and eliminates altitude errors resulting from temperature extremes, non-standard pressure conditions and altimeter mis-sets – the latter accounting for 25 percent of all CFIT accidents. If the unit detects a discrepancy in altitude, a "Check Altitude" alert is issued.

- **Altitude Loss After Take-off:** The EGPWS monitors altitude during take-off and climb using known runway position and elevation information. This mode is active until the aircraft is 700 feet above the take-off runway elevation.

- **Altitude Callout:** This callout to the pilot indicates a position approximately 500 feet above the elevation of the approached runway. This mode is only active within five nautical miles of a known runway when Geometric Altitude indicates 500-foot elevation above the runway.



Terrain avoidance technologies

■ **Runway Field Clearance Floor –**

To offer further protection against premature descent during landings and operations near airports, the KGP 560 and KGP 860 incorporate the Runway Field Clearance Floor (RFCF) feature. RFCF provides 360° coverage of terrain and obstacles within five nautical miles of public runways that are more than 2,000 feet.

- **Compact Protection –** A compact, single-box system, either unit weighs less than 1.5 pounds, including its built-in GPS receiver. Requiring minimal input – just pressure, altitude and power – the KGP 560 and KGP 860 are easy to install. Offering coverage for anywhere you fly, regional data cards can be replaced in the field, simplifying maintenance.

■ **Advanced Situational Awareness –**

Ensure superior flight safety with a Bendix/King Integrated Hazard Avoidance System (IHAS). IHAS systems encompass each of the four major airborne safety systems – positioning, weather avoidance, traffic advisories and terrain awareness – to give you a clear, comprehensive snapshot of flight conditions on one easy-to-read multi-function display. Enhance the capability of the KTA 870 and KMH 880 systems with either the IHAS 5000 or 8000 system for a fully integrated safety solution.

■ **Special Features Exclusive to the**

KGP 860 – The KGP 860 takes terrain awareness to the extreme. This comprehensive system offers the best protection on the market for Class B aircraft.

- **Unsafe Terrain Clearance:** This mode provides alerts for insufficient terrain clearance with respect to phase of flight, configuration and speed. During cruise and approach when the gear is up, the KGP 860 provides alerting to warn of a possible unintentional gear-up landing. The KGP 860 will also warn of “Too Low, Flaps” during cruise and approach when gear is down but flaps are not in landing configuration.

– **Altitude Callouts and Bank Angle**

Alerting: The KGP 860 provides advisory callouts for excessive bank angle. Bank angle advises of excessive roll angle, based on limits determined by aircraft altitude above ground and auto pilot status.

Why Honeywell?

- 30 years of avionics system experience
- Industry leader in safety system integration
- Broadest range of avionics products and services
- Proven designs with high reliability
- Global service and support network (24/7/365)

KGP 560

THE BENDIX/KING KGP 560

Maximum protection for non-EFIS equipped aircraft.

- CFIT protection in a compact package
- Exceeds TSO C151 TAWS Class B requirements
- Updateable worldwide terrain databases
- Up to 320 nautical miles display capability
- Built-in GPS receiver eliminates the need for an external GPS source (also interfaces to external GPS units)
- Exclusive geometric altitude – including altimeter mis-set warnings
- Interface to EFIS 40/50 or KMD 550 and KMD 850 MFDs
- Minimal sensor inputs required
- Look-ahead algorithms
- Advanced Runway Field Clearance Floor (RFCF) feature
- Exclusive “Peaks” mode displays additional terrain below the aircraft, regardless of altitude

KGP 860

THE BENDIX/KING KGP 860

Maximum protection for turboprop and light jet aircraft. All the features of the KGP 560, PLUS:

- Too low gear and flaps warnings
- Bank angle alerting
- Multiple EFIS interface capabilities: Honeywell EFS 40/50, EFIS 10, P880/660/440
- P600/400/300, P90, Primus 1000, SPZ 8000, EDZ 603/605/803/805/806, KMD 550/850
- Collins Proline 2, 4, 21, FDS-255/2000, FPI-9XX

Honeywell Aerospace

Honeywell is a leading global provider of integrated avionics, wheels and brakes, engines, systems and service solutions for aircraft manufacturers, airlines, business and general aviation, military, space and airport operations.

For more information on Honeywell Aerospace, visit us online at www.honeywell.com/aero

Customer Support

Our Bendix/King IHAS systems and components are backed by Honeywell's comprehensive service offering and two-year "no hassle" warranty. And wherever you fly, you'll never be far from one of our 800 authorized service centers worldwide – the most extensive and capable network in general aviation.

KGP 560/860 ENHANCED GROUND PROXIMITY WARNING SYSTEMS

Width: 2.2 in. (5.59 cm)

Height: 4.15 in. (10.54 cm)

Depth: 6.25 in. (15.88 cm)

Weight: 1.5 lbs.

Power Requirement: 10-32 VDC

Certification: TSO C151b Class B

Inputs: Pressure Altitude

Power

Outside Air Temperature (optional)

Outputs: Display

Annunciators

Aural Warnings

Temperature Range: -40° to +55°C



Find out more

For further information on the Bendix/King KGP 560 or 860 systems, contact us at 877-712-2386 or visit us online at www.honeywell.com/bendixking

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