

ERMO-AIR

NEW!

MICROWAVE BARRIER FOR AIRPORT GROUND TRAFFIC CONTROL



Also
IP & PoE

EXTREME SECURITY

V 1.2

CIAS

ERMO-AIR

Introducing a runway safety system that prevents runway collisions and accidents.

ERMO-AIR, based on microwave technology from CIAS (that has been protecting sensitive site perimeters worldwide for decades), is an adaptation of a proven technology applied to a runway safety solution for ground traffic control personnel. In airports, managing access routes to the main runways following a GO command to a Stop Bar can be a challenge – especially in harsh weather conditions and low visibility. Airline personnel and passenger lives depend on accurate information to prevent the potential of fatal accidents.

International airports throughout the world are already equipped with CIAS technologies that harden the perimeter to prevent unwanted intrusions, breaches and sabotage. The game changing **ERMO-AIR** is fast becoming the aviation industry's choice for a safety solution on the runway.

How Does ERMO-AIR Work?

Based on fuzzy logic analysis intelligence, the 24 GHz antenna generates a microwave beam that can rule out non-threatening intrusions and only detect the true presence of aircraft on a runway, its positioning and proximity to oncoming traffic or aircraft moving in the wrong direction and gives an alert to a command center. The system is immune to radio frequency interference typically present in airport environments.



ERMO-AIR monitors the signal, comparing it with Fuzzy Behaviour Models (FBM), i.e. using algorithms based on Fuzzy logic, to decide if the signal was created by a real intruder or some other factor. The size, shape, and rate of change of the signal are continuously measured and compared with typically stored signals.

The sensor can detect small airplanes, trucks, cars, and persons passing by the taxiways in order to prevent collisions or accidents. Every event that generates an alarm or a significant change in the received signal is date/time stamped and stored in memory and can be analyzed in real-time and/or later.

AUTOMATIC ENVIRONMENT ADJUSTMENT

Even the harshest climate conditions such as fog, heavy rain, hail, sand storms will not impact the **ERMO-AIR**'s performance and detection ability.

With operating temperatures of -40 - +70C (-40-158F), the **ERMO-AIR** is a high functioning system in all environments.



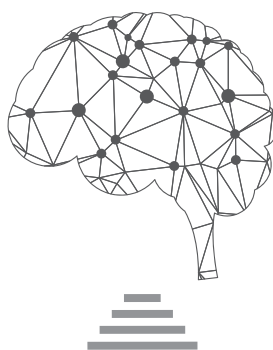
FBM - FUZZY BEHAVIOUR MODEL FOR DIGITAL ANALYSIS

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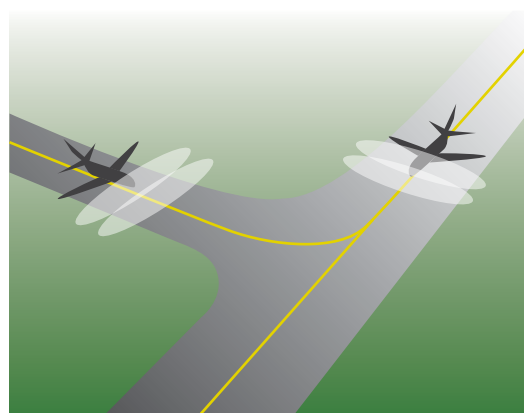
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PREVENTION OF COLLISIONS BETWEEN AIRCRAFT IN TRANSIT ON THE SAME TAXIWAY



FUZZY LOGIC INSIDE



PREVENTION OF COLLISION BETWEEN AIRCRAFT IN THE PROXIMITY OF TWO CONVERGING RUNWAYS

IP & POE READY

<⚡> IP-READY PoE

By installing the IP-Doorway interface inside the barrier's head, **ERMO-AIR** becomes an **"IP-ready" detector, for integration with major CCTV brands over IP**. With an ethernet CAT5E FTP cable, it is possible to **power the barrier while also remotely managing the alarm** data and configuration.

For the installer, the considerable economic advantage is obvious as almost everything can be done easily using a single cable only.



EASY SET-UP WITH CIAS TUNER

ERMO-AIR can now be set up with the web-based & mobile-friendly calibration tool CIAS Tuner's. It's still compatible with WaveTest2 SW.

OTHER USES FOR INTRUDER DETECTION

RAPIDLY DEPLOYABLE BARRIER FOR TEMPORARY PROTECTION

Ideal for the protection of vehicles or goods that need quickly deployable protection for a limited period of time. The product has been designed to be very easy to use even for non-technical personnel.



TURNKEY SET READY TO USE



AIRCRAFT PARKING APPLICATION

PROTECTION IN EXPLOSION PROOF ENVIRONMENT

For environments requiring special safety precautions, an explosion proof version of the barrier is available, provided in special housings certified CESA 01 ATEX 036.



EXPLOSION PROOF VERSION



EXPLOSION-PROOF SPECIAL CASE

SPECIFICATIONS

TECHNOLOGY	digital microwave barrier
RANGE	from 16ft to 820ft (5m to 250m)
FREQUENCY AND CERTIFICATION	k-band 24Ghz CE+FCC+IC certified
MODULATION CHANNELS	16 crystal controlled
PROBABILITY OF DETECTION	99,99%
TEMPERATURE	-40°F / 158°F (-40°C /+70°C)
POWER SUPPLY	19Vac - 13.8Vdc, 24Vdc or PoE 802.3AF (using IP-Doorway)
ALIGNMENT	incorporated audio-visual instrument with self-check
TUNING	tuning and remote maintenance through software CIAS-Tuner or WAVE-TEST2
IP GRADE	IP66
OUTPUTS	alarm, fault, tamper managed via relays or RS-485. Over IP output available through IP-Doorway

CIAS RESERVES THE RIGHT TO CHANGE THE SPECIFICATIONS DESCRIBED IN THIS BROCHURE AT ANY TIME WITHOUT PRIOR NOTICE.



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