

EVEARLYS™ TOTAL LIGHTNING ACTIVITY MAPPING SOLUTION

EVEARLYS™ UHF interferometric technology monitors Total Lightning Activity in real time for the best advance warning of severe events and the safest activity retakes. For over 30 years, the entire weather scientific community (including NASA and EUMETSAT) has recognised VHF/UHF technology as the best approach for detecting the smaller signals that precede the outbreak of a storm. With the EVEARLYS™ sensor, **SELERYS' revolutionary proposition is to make it possible to anticipate each and every storm with the best advance warning**, by providing the first UHF technology at an affordable price.



PATENTED ARCHITECTURE FOR FLEXIBLE, COMPACT INSTALLATIONS

The patented architecture of EVEARLYS™ designed by Selerys consists of **four identical modules**, made in the form of panels, each orthogonal to its two neighbours. This architecture allows **flexible installations** on towers, masts, or buildings with a minimum of constraints. Thanks to this architecture **maintenance** can be performed the **simplest way**.



A SOLUTION DESIGNED FOR ALL CONFIGURATIONS

EVEARLYS™ has been designed in order to help in anticipating severe events in different configurations. It can be used in a **network** to monitor weather risk across **large territories** or on a **punctual area as a stand-alone sensor** (if coupled with SKYDETECT™). In case of **remote installation** areas, EVEARLYS™ modules run at a very low **electrical consumption** and **autonomous power supply** is available as an option.



SEVERE WEATHER EVENTS RISK MANAGEMENT WITH EVEARLYS™

Detecting very early Intra Cloud lightning activity insures the best advanced warning of severe events (storms, tornadoes) way before the first Cloud Ground lightning strikes. Because every minute counts, referring to Total Lightning Activity Mapping increases operational efficiency without missing any event (no false negative) and minimising false positives with the safest activity retakes.



COUPLING EVEARLYS™ AND SKYDETECT™ : THE EARLIEST AND MOST ACCURATE STORM ANTICIPATION SOLUTION ON THE MARKET

The latest scientific publications indicate that the optimum for storm anticipation is the combination of VHF/UHF (as provided by the EVEARLYS™ solution) and an X-Band radar (as our SKYDETECT™ equipment). SELERYS is the only company worldwide offering this type of solution fully integrated from hardware and software perspectives.

Selerys, predicting the unpredictable.

EVEARLYS™ : **PERSONALISED AUTOMATIC ALERTING**

Operators can even rely on customised automatic alerting based on SELERYS' risk assessment algorithm. EVEARLYS™ can be considered as a true **sentinel, 24 hours a day, 7 days a week, 365 days a year!**

FEATURES & BENEFITS

- The most affordable industrial UHF interferometry technology
- Patented innovative architecture for flexible installations
- UHF interferometry provides best early warning according to international scientific community
- Detects and maps the real total electrical activity of clouds compared to LF & HF detection technologies
- Early identification and advanced warning of convective initiation and first CG stroke.
- Safer activity retakes
- Possible uses: standalone (coupled with SKYDETECT™) or in network
- Minimum of 4 hours of uninterrupted power supply (UPS) in case of loss of power to site.

USER EXPERIENCE

- User-friendly interface
- Customized automatic alerting
- SMS / Mail / voice alerts
- Access to archives
- Nomad remote access: smartphones, tab & computers
- Real-time remote system monitoring
- Multi-user management
- Dynamic map

TECHNICAL SPECIFICITIES

DIMENSIONS & WEIGHT

- 1,3 meters by 1 meter for each panel
- 7 kilos per panel

INSTALLATION

- Flexible installation :
180° view per panel (4 panels required)
- Implantation analysis tools & services
- Pylon for SKYDETECT™ and EVEARLYS™ coupling option

COMMUNICATION

- Web access through GSM, ADSL or SATELLITE
- Nomad remote access :
smart phone, tab, computer

POWER SUPPLY

- 100-120 VAC /200-240 VAC
- Maximum consumption 50W
- Option : electrical autonomous system

ENVIRONMENTAL OPERATIONNAL CONDITIONS

- Wind speed 0 - 180 km/h
- Temperature - 40°C to +50°C
- Relative humidity 0 to 100%

OPERATIONAL SPECIFICATION

- Lightning Type Total Cloud discharges flashes and strokes
- Azimuth resolution
- Nominal acquisition threshold : -97 dBm
- Processing time resolution : 10µs
- Nominal Baseline Between Sensors 20 to 120 km
- UHF Band
- Performance Monitoring;
Complete manual and automatic system calibration and self-test
- Remote Monitoring tools & services available.

EVEARLYS™ CAN BE USED FOR FOLLOWING APPLICATIONS:

