

 telegrafia®

# EMA Compact

New generation ultra-compact  
all-in-one monitoring station



# Product description

**EMA Compact** is a new generation **ultra-compact and resistant monitoring station** equipped with an independent backup power supply source. Thanks to its functionalities and low-weight and high-IP-rated construction, it seems to be ideally suited **for interior and exterior applications in early warning or industrial automation systems**.

According to a type of sensors connected, the station can **monitor weather conditions, water levels** in streams, rivers, tanks, and mud or sludge pits, the **stability** of building structures, and **the presence of hazardous substances** in the environment. It can **assess a variety of risks** on a multi-level basis. The **EMA Compact monitoring station** sends the values it measures and calculates through one or two independent channels to warning control centres or mobile phones, or it can directly activate electronic sirens, PA systems, or beacons.

Built-in backup batteries ensure its **seamless and reliable operation even in case of an external power failure**, and even **solar panels** suffice as a long-term energy source. A stainless-steel box allows its outdoor installation without the necessity of any additional weather protection.

## Sophisticated compact monitoring stations for warning systems



## Key features



### Compactness

An all-in-one device – a small, compact stainless-steel box, an embedded power supply source, and a backup battery with a charger for easy and quick installation.



### Intelligence

Built-in applications allow multi-level risk assessment, communication either directly with electronic sirens, warning control centres, or mobile devices. Working parameters can be changed remotely using a sophisticated management system.



## Flexibility

Despite its small dimensions, it has an unusually high number of interfaces for different sensors, supports a vast amount of protocols, and it can be used in simple but also sophisticated monitoring systems.



## Communications

The station communicates with standard wireless and wired communication channels – through GSM and mobile operator networks, WiFi, Ethernet, RS232, RS485, and analogue radio.



## Solar power supply and mobility

The device can be powered not only from the standard 120-230V mains but also from solar cells, making it a completely autonomous station that can be placed virtually anywhere and also designed as a portable unit.

## Technical parameters

<b>Power supply</b>	main: 90 V – 264 V AC / 50 Hz, 60 Hz solar: 12 V, panel min. 50W*
<b>Power consumption</b>	max. 25 W during the battery charging process max. 2 W in standby mode with fully-charged batteries (without sensors)
<b>IP rating of the station box</b>	IP66
<b>Numbers of inputs/outputs</b>	24 configurable binary input or output <ul style="list-style-type: none"><li>• Inputs: passive- switch to ground</li><li>• Outputs: open drain, max.100mA/50V</li></ul> 8 analogue input with galvanic isolation <ul style="list-style-type: none"><li>• voltage sense mode: 0- 30V</li><li>• current sense mode: 4- 20mA</li></ul>
<b>Cable communication channels</b>	RS232, RS485, Ethernet*
<b>Wireless communication channels</b>	WiFi*, GSM mobile data*, GSM SMS*, analog radio*
<b>Protocols</b>	TLG2, MODBUS*
<b>Dimensions of the station box</b>	300×210×110 mm
<b>Weight of the station box (without batteries)</b>	6 kg
<b>Operating temperature range</b>	-25°C to +65°C

\* optional item





**Telegrafia a.s.**  
Lomená 7, 040 01 Košice

[sales@telegrafia.sk](mailto:sales@telegrafia.sk)  
[www.telegrafia.eu](http://www.telegrafia.eu)