



## PLUVIOMADD2

### PLUVIOMETRICAL STATION WITH ALARMS

#### Programmable alarms:

- Start and end of events (rainfall)
- Exceeding of rainfall threshold per event (storm)
- Exceeding of rainfall threshold in long time (persistent rainfall)
- Alarms sent by SMS and email
- 2 email addresses and 5 phone programmable numbers
- Remote configuration of some parameters via SMS

Floods and landslides caused by heavy rains are becoming more recurring and regularly cause major damage.

Our measuring station **PluvioMADD2**, placed at sensitive locations, can be used to notify officials and population some time before these phenomena occur. This time will allow evacuating people in danger and close pathways if necessary.

A set of four alkaline batteries provides a sufficiently long operating time to prevent that the station **PluvioMADD2** requires a grid connection. It is easy to install, even in places with poor access. The GPRS option, with the automatic and periodic data sending, avoids frequent trips to the station and permits a remote monitoring of the station.

Programmable according to various criteria, the station sends alert messages by SMS and data by email to various officials. The alarms are emitted at threshold exceeding during storms or persistent rains. Notices are also sent if the situation has become normal again. The alarm thresholds can be programmed on site or remotely via SMS.

The station **PluvioMADD2** can also be fitted with a ventilated thermometer for accurate measurements of air temperature.

Finally, with the **LCD option**, it is now possible to read some important information about the status of the station on the field without a laptop. Thus, by a simple pression on a button, the time clock of the station, the time of the last tip, the battery voltage or the memory status may be verified on a small LCD screen.



## TECHNICAL SPECIFICATIONS

PluvioMADD2	
Measuring interval of temperature	Between 10 minutes and 24 hours
Memory capacity	16'000 tips (date and time) 32'000 measurements of temperature
Operating temperature	From -30 to +60 °C
Power supply	4x 1,5 V LR20
Dimensions	166 x 161 x 93 mm
Waterproof	IP65
Communication	Serial link RS-232

Rain gauge	
Rain gauge type	Tipping bucket rain gauge
Dimensions	Ø 260 x 350 mm
Collector area	400 cm <sup>2</sup>
Resolution	0,2 mm
Precision	< 1% up to 90 mm/h
Leveling	Bubble level with 3 screws

Ventilated air temperature probe	
Dimensions	520 x 135 x 150 mm
Measuring range	-30 to +50 C
Absolute precision	± 0,25 °C
Power supply of the ventilator	Solar panel
Operating time of the ventilator	10'000 hours

Alarms	
Operating modes	Standby, event, alarm 1, alarm 2
Programming of the alarms :	
- Threshold value	>0,2 mm
- Accumulation period (alarm 1 / alarm 2)	1-1440 / 10-2880 minutes
Interval of data sending by email :	
- In standby / in alarm	1 hour to 12 months / 10 minutes to 24 hours
Numbers of SMS numbers / addresses email	5 phone numbers / 2 addresses
Remote programming	Operating modes, thresholds, intervals of data sending, phone numbers for SMS

**MADD TECHNOLOGIES** can change these specifications without warning

## AVAILABLE MODELS

Model	Description
PluvioMADD2	Pluviometrical station with rain gauge for an installation in a box
MADD-GPRS	GPRS option for the data sending on 2 email addresses, with antenna
PLUVALARM	Alarm by SMS option, with 2 programmable thresholds and 5 SMS numbers
MADD-PROG	Option for the remote station programming by SMS
MADD-T32-PS	Ventilated air temperature probe option, with solar panel and cable
MADD-T10-CHAUFF	Rain gauge heating option, with power supply
MADD-LCD	LCD screen option for the local display of working information