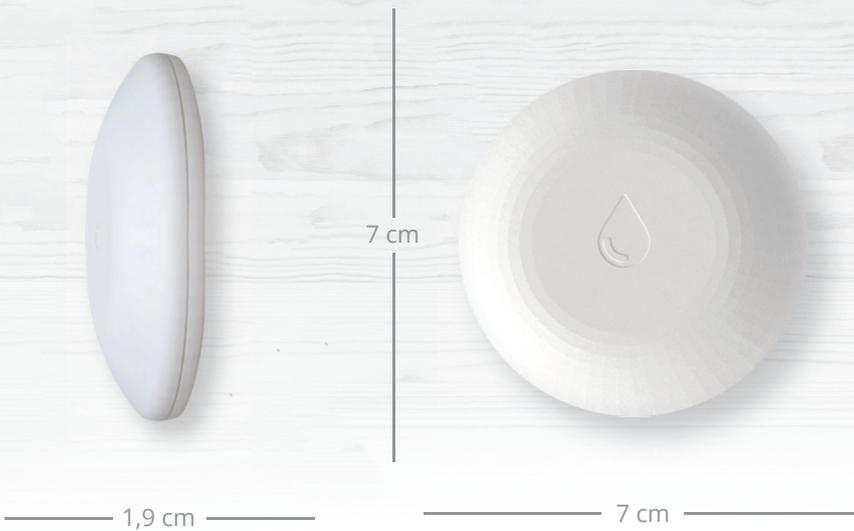


M Flood Sensor

by MClimate

LoRaWAN



Description

MClimate Flood Sensor is a compact flood sensor suitable for residential and commercial applications. If a flood is detected, data is immediately transmitted.

Product features

- Flood detection
- Device tampering detection
- Temperature sensor
- Buzzer
- LED

Applications

- Smart Buildings
- Smart home
- Residential buildings
- Commercial buildings
- Environment monitoring

Device specifications

Mechanical specifications

WEIGHT	33gr
DIMENSIONS	70x70x19mm
ENCLOSURE	ABS

Operating conditions

TEMPERATURE	-20+60°C
HUMIDITY	0-80% RH (non-condensing)

Power supply

BATTERY TYPE	CR123A
OPERATING VOLTAGE	3VDC
EXPECTED BATTERY LIFE	Up to 10 years (depending on configuration and environment)



Radio/Wireless

WIRELESS TECHNOLOGY	LoRaWAN® 1.0.1
WIRELESS SECURITY	LoRaWAN® End-to-End encryption (AES-CTR)
LORAWAN DEVICE TYPE	Class A End-device
SUPPORTED LORAWAN FEATURES	OTAA, ADR, Adaptive Channels setup
SUPPORTED LORAWAN REGIONS	EU863 – 870; Other LoRaWAN regional settings available upon request
LINK BUDGET	130dB
RF TRANSMIT POWER	14dB

Communication protocol

KEEPALIVE	BYTE INDEX	VALUE NAME	DATA SIZE	NOTES
	0x00	Reason to send message + status	1	Possible reasons: Keepalive; Device test switches; Flood detected; Tampering detected
	0x01	Battery voltage		
UPLINK/DOWNLINK AVAILABLE REQUESTS		Read temperature Activate LED (different modes available) Activate Buzzer (different modes available) Write acoustic flood alarm duration Write keepalive period		

Sensors

Temperature

RESOLUTION	0,1°C
ACCURACY	±1°C