METOS® UK

LoRAIN

LoRaWAN® and NBIoT weather station

High quality, solar-powered sensors provide effective measurement of rainfall, air temperature, humidity and soil moisture, for any application.

	LoRain (Rain only)	LoRain	LoRain Soil
Rain Gauge	✓	✓	✓
Air temperature	✗	✓	✓
Air humidity	✗	✓	✓
Soil moisture	✗	✗	✓
Watermark	✗	✗	✓
Dew point*	✗	✓	✓
VPD*	✗	✓	✓
Delta T*	✗	✓	✓

*Virtual sensors

LoRAIN

Your perfect hardware partner

METOS UK provides an estensive range of high quality sensors from Pessl Instruments, a long-established name in sensor manufacture and design.

We deliver the most reliable hardware and project development support for your solution.

Benefit from local, UK-based service, and fully-equipped, read-to-use devices, with plug and play design.

LoRAIN Technical Specifications

Housing	UV resistant polycarbonate plastic (Protection class IP65)
Dimensions	22.5 cm L x 17 cm W x 18 cm H
Weight	1.10 kg
Connectivity	**LoRaWAN:** EU863-870, US902-928, AU915-928, AS923 **NBIoT:** Category: Cat-M1/NB1; Frequency Band: B1, B2, B3, B4, B5, B8, B9, B10, B12, B13, B14, B17, B18, B19, B20, B25, B26, B27, B28, B66
Measuring interval	**LoRaWAN:** 5 minutes **NBIoT:** 15 minutes
Logging interval	**LoRaWAN:** 15 minutes **NBIoT:** 15 minutes
Transmission interval	**LoRaWAN:** 15 minutes **NBIoT:** 60 minutes

Sensors

Rain Gauge	Sensitivity: 1 tip per 0.2 mm
Air temperature	Operating temperature range: –40 °C to +125 °C Thermometer error –10 °C to +85 °C: +/- 0.3 °C
Air humidity	Precision 0 – 80 %: +/- 2 % Precision 80 – 100 %: +/- 3 %

Measurement, logging and transmission intervals can be set differently to fit the client's needs.

Measurement interval: occurrence, when the station measures the attached sensors

Logging interval: occurrence, when the station calculates the minimum, maximum and average values of all measurements which happened in this logging interval

Transmission interval: occurrence, when the station transmits the stored data from the logging interval to the FieldClimate.

Logging and transmission intervals for LoRaWAN communication-based products are the same.