

METOS® FWT



METOS® FWT is an IoT device designed to monitor the water level depth in flooded rice fields in real time.

The solution supports farmers in the adoption of the Alternate Wetting and Drying (AWD) methodology or similar water-saving techniques.

METOS® FWT can be a very helpful tool supporting decisions to mitigate risks due to periods of water scarcity.

It is a ultrasonic height level monitoring device applicable in many different situations. The device comes with the top part and the tube needs to be sourced by the client or distributor locally to best fit the clients use case.



TECHNICAL SPECIFICATIONS

Dimensions	Length (mm): 170 mm max (diameter) Width (mm): 170 mm max (diameter) Height (mm): 95 mm max
Weight	0.400 kg
Connectivity	NB-IoT NB1 / Cat-M1 / GPRS*
Power supply	Solar panel 2V, 0.5 Wp, 40X60 mm + Battery 12 Ah in superCap.
Measuring interval	5 minutes (default, customizable 10, 20, 30, 60 minutes)
Logging interval	15 minutes (default, customizable 10, 20, 30, 60 minutes)
Transfer Interval	15 minutes (default, customizable 30, 60 minutes)
SENSORS	
Ultrasonic distance sensor - Resolution	1 mm
Ultrasonic distance sensor - Working temperature	-15 °C to +60°C

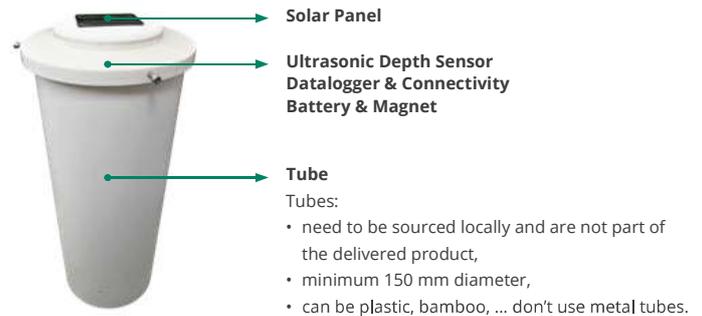
Order number: 700248

A COMPACT SOLUTION FOR YOUR RICE FIELD



Alternate Wetting and Drying (AWD) is a water-saving technique for rice production. With the low-cost METOS® FWT technology, the manual practice is digitalized and rice growers get real-time continuous monitoring that results in:

- Saved time and money,
- More precise water applications,
- Decreased global warming potential thanks to the reduced GHG (methane) emission by healthier roots,
- Data that is automatically stored, sharable and accessible also for extension service field staff for better AWD knowledge transfer and management at the community level.



Solar Panel

Ultrasonic Depth Sensor Datalogger & Connectivity Battery & Magnet

Tube

Tubes:

- need to be sourced locally and are not part of the delivered product,
- minimum 150 mm diameter,
- can be plastic, bamboo, ... don't use metal tubes.

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