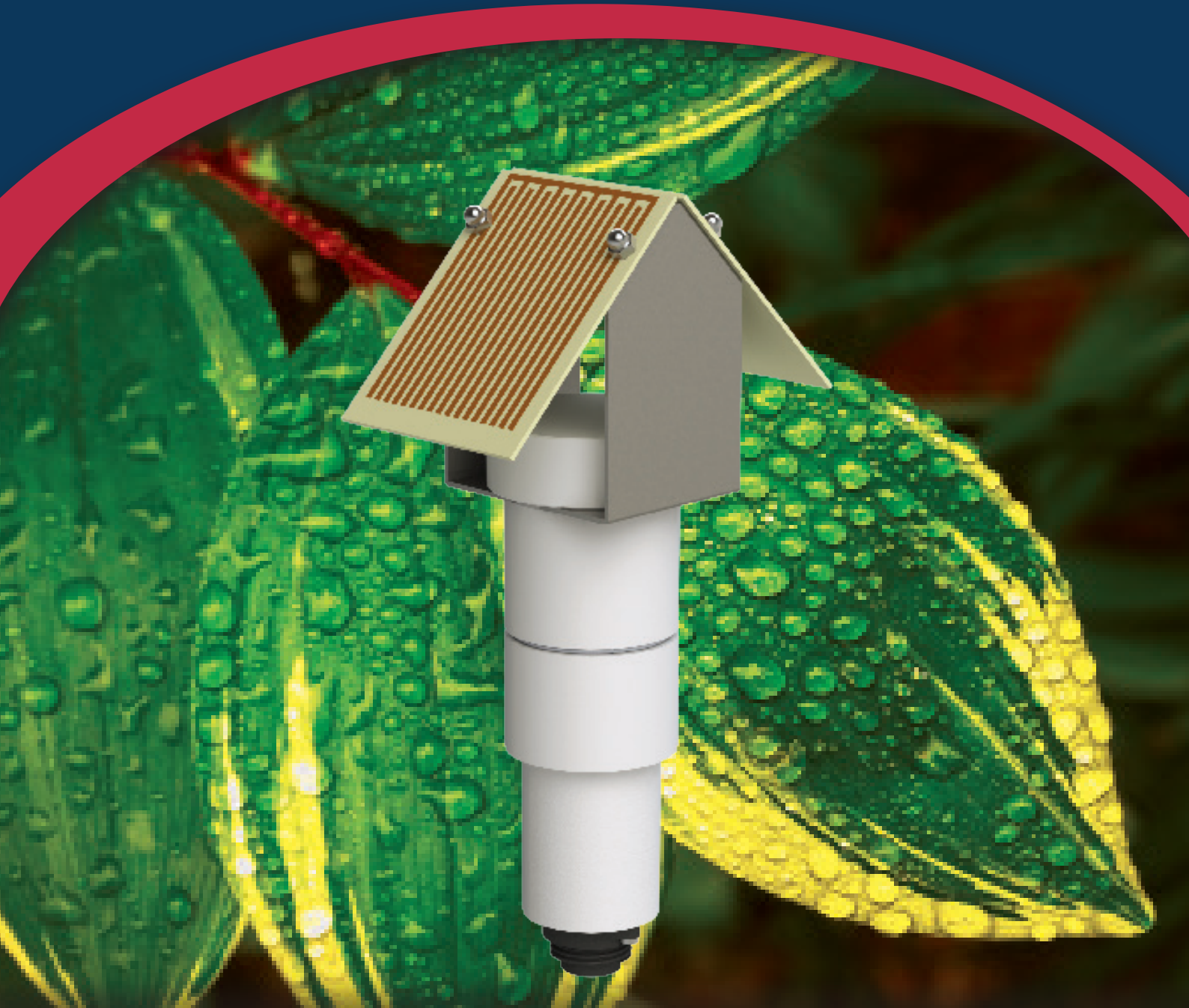


Close to
100
years
Since 1925

SIAP+MICROS
Environmental Monitoring Solutions

LEAF WETNESS Sensor

t017 TBF-ET



It perfectly simulates a real leaf



Ease of installation and use



Very robust device



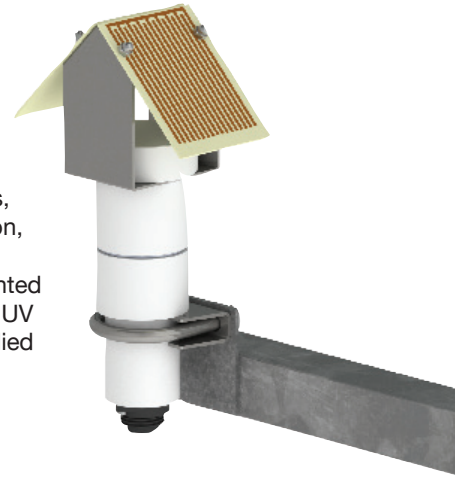
Virtually maintenance free

Description

TBF is a basic sensor for agrometeorology, typically used to investigate with a very high precision the persistence of water drops above the leaf surface. This indicator is fundamental to measure the residence time of water drops on the leaves, in order to identify phytopathological risks or the leaching of treatments from crops.

TBF sensing element consists of two gilded copper electrical circuits placed on glassonite plates, which are specifically tilted to simulate a real leaf. Once the surface gets wet (for rain, condensation, dew, ice, etc.), the system enters into conduction closing the electrical contact.

Sensor body is overall made of high-quality plastic, but particularly the sensing element is mounted on an anticorrosive aluminium alloy support. The protection screen is made of non-hygroscopic, UV resistant and low thermal capacity plastic material, to ensure long-term stability. The sensor is supplied with power and signal cable (4 m).



Main features

- Easy to install
- It perfectly simulates a real leaf
- Virtually maintenance free (6 months cleaning needed)

Technical Specifications*

Measurement performance

Leaf Wetness

Transducer	Two gilded copper electrical circuits placed on glassonite plates
Measurement range	ON / OFF
Resolution	0.5 s
Accuracy	0.5 s

Operating conditions

Temperature	0°C ÷ +60°C
Humidity	0% ÷ 100%

Outputs

Output	Open drain (relay contact upon request)
Maximum tension open drain output	24 V
Maximum current open drain output	400 mA
Maximum tension reed contact output	30 V
Maximum current reed contact output	1000 mA

Power supply and Consumption

Voltage supply	6 ÷ 22 Vdc		
Consumption (mA)	Min	Typical	Max
Open drain	-	1.5	-
Relay contact	-	15	-

Mechanical specifications

Protective body	Plastic and stainless steel, sensing element in copper and glassonite.
Weight	410 g
Dimensions	135 x 67 x 232 mm
Electrical connections	IP67 / 4-pole male connector

*Changes on technical performances can be applied upon request of specific calibration