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is right for the user.

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HSE



METOS[®]
BY PESSL INSTRUMENTS

METOS Weather Station With and Without a **Hybrid Weather Station Extension (HSE)**

HSE



This document compares a **physical METOS weather station** that is equipped with physical sensors to a **METOS enhanced by a Hybrid Weather Station Extension - HSE**.

The HSE provides users with supplementary data collection capabilities on a physical station that doesn't have all the necessary physical sensors, through the addition of virtual sensors, which not only reduces costs but offers full station functionality.

KEY DIFFERENCES AND CONSIDERATIONS, AND PRICE BREAKDOWN

MODEL	nMETOS 180 with HSE	METOS 5 200 with HSE	METOS 5 300 without HSE
Physical sensors	Rain, air temperature and relative humidity	Rain, air temperature and relative humidity, leaf wetness	Rain, air temperature and relative humidity, leaf wetness, global radiation, wind speed, wind direction
Virtual sensors	Leaf wetness, global radiation, wind speed, wind direction, soil temperature	Global radiation, wind speed, wind direction, soil temperature	None
Maintenance	Requires maintenance visits and upkeep of physical sensors	Only physical sensors require maintenance, while the virtual ones don't	Requires regular checks for physical sensors
Use case	Best for general weather monitoring with physical sensors. Suitable for general farm and environmental data collection.	Ideal for precision farming, disease modeling, and general irrigation. Perfect for users who need more data without additional hardware.	Best for users who prefer an all-in-one physical solution for comprehensive real-time monitoring.

The choice between these options depends on the budget, maintenance preferences, and data needs. The METOS 5 200 with HSE offers a great balance between cost and flexibility, providing more data without the need for extensive physical sensor installations.

On the other hand, **METOS 5 300 without HSE** provides a more comprehensive physical solution but at a higher upfront cost (over 10 years worth of yearly HSE subscription). We suggest you reach out to one of our [METOS representatives](#) and experts to get a tailored offer for your specific needs and expectations.

The virtual sensors provided by the HSE make any METOS station **perfect for optimizing irrigation** by using **ET0 values**. This will help determine precise water needs, improve efficiency, and boost yields by ensuring crops receive the right amount of moisture.

Additionally, by tracking conditions that lead to disease outbreaks, like relative humidity, leaf wetness, solar radiation, and temperature, one is able to make informed decisions about when and how much to spray.



Once the HSE is activated, the station's sensor setup will seamlessly expand to include virtual sensors in addition to the current physical sensors. If a physical sensor stops functioning unexpectedly, the

SUBSCRIPTION ADD-ONS FOR SMARTER FARMING INSIGHTS

*We highly recommend opting into both the **disease modeling** and **weather forecast subscriptions** - together, they allow users to proactively manage every aspect of successful and profitable farming - better plan and manage irrigation, predict diseases, know when is the best time for spraying, and much more.*

