

MTS

Modular Temperature Sensor



- Compatible with modular power
- Management (MPM)
- Robust design (IP 54)
- Simple assembly
- Wide temperature range
- Optimizes battery calculation

The MTS is an external temperature sensor specifically designed for the use in off-grid PV- and PVhybrid-systems. It is an accessory for the innovative Modular Power Management (MPM) family from Phocos. The MTS can be integrated when the Phocos MCU is available in the system design. All components within the MPM family are equipped with internal temperature compensation. Should the temperature at the battery bank be significantly different from the temperature at the MPM components, MTS can be used to measure battery temperature and optimize the battery calculation.

The installation of the MTS is quick and easy thanks to the simple connection and the robust mounting design. The temperature sensor is installed directly to the battery and is connected via RJ-11 plug to any free bus port on MPM. The MTS works reliably and accurately within a specified temperature range of $-40\text{ }^{\circ}\text{C}$ to $+80\text{ }^{\circ}\text{C}$. The integration of this temperature sensor ensures precise regulation by MPM at all times, thus, extending battery lifetime.

Type	MTS
Temperature range	-40 to $+80\text{ }^{\circ}\text{C}$
Measurement accuracy	$\pm 1\text{ }^{\circ}\text{C}$
Self consumption	$< 10\text{ mA}$
Weight	0.122 kg
Cable length standard	6 m (longer version available on special request)
Interface	Phocos MPM-Bus
Dimensions (W x H x D)	38 x 20 x 15 mm
Type of protection	IP54