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FEATURES

- Replacement for OW-TEMP-xW-12x & T2001.
- Ambient temperature range wall mount.
- Available with a Maxim DS18B20*.
- Uses 1-Wire communication protocol.
- Compatible with all EDS and Maxim 1-Wire bus masters.
- Automatic unique device addressing.
- Auto configures VDD.
- No external power required, or can be optionally powered for faster operation.



DESCRIPTION

The OW-ENV-T temperature sensor is designed for general-purpose ambient temperature measurement applications. It is constructed of high impact ABS plastic, ivory in color, and well suited for wall mounting. The OW-ENV-T temperature sensor is vented for good thermal contact with the ambient air. The OW-ENV-T simplifies installing 1-Wire networks by providing a pass through 1-Wire connection (like all OW-ENV sensors) and auto configuring the VDD pin** to ground if external +5V is not provided. The screw-down terminals include two sets of the following connections:

OW – 1-Wire Data
 GND – Ground
 GND – Ground
 PWR – +5V External Power

The OW-ENV-T is directly compatible with all Embedded Data Systems and Maxim 1-Wire bus masters, as well as the freely available TMEX drivers and OWFS. For complete documentation on the embedded DS18B20 sensors, please refer to the manufacturer’s spec sheet available at <http://datasheets.maxim-ic.com/en/ds/DS18B20.pdf>.

* With minimum orders we can manufacture with the DS18S20 temperature sensor. Please contact us for a quote.

** VDD must be grounded for parasitic operation.

SPECIFICATIONS

PARAMETER	SYMBOL	MIN	TYP	MAX	UNITS
Temperature Range (Enclosure)	TR	-40	-	85	Degrees C
Temperature Range (Sensor)	TR	-55	-	125	Degrees C
Accuracy (-10 to +85 Deg. C)	ACM	-0.5	-	+0.5	Degrees C
Accuracy (-55 to +125 Deg. C)	ACT	-2	-	+2	Degrees C
Resolution (DS18B20)		9		12	Bits
Supply Voltage	Vdd	3.0	5.0	5.5	Volts
Input Logic High	Vih	2.2		5.5	Volts
Input Logic Low	Vil	-0.3		+0.8	Volts
Dimensions L X W X D	Dim	80	80	21	mm