

<http://www.EmbeddedDataSystems.com>

FEATURES

- Ambient Temperature Range Wall Mount.
- High Impact ABS Plastic Enclosure.
- Surface or wall mount.
- Available with DS18B20 or DS18S20 Temperature Sensor
- Optional RJ12 plug.
- No external power required.
- Uses 1-Wire communication protocol.
- Compatible with EDIOS.
- Automatic unique device addressing.
- Highly durable and flexible stranded Teflon cable.
- High temp stranded cable, from 1-100 feet in length.



DESCRIPTION

The OW-TEMP-xW-xxx wall mount temperature sensor is designed for general-purpose ambient temperature measurement applications. It is constructed of high impact ABS plastic, ivory in color, and suited for wall or surface mounting. The wall mount temperature sensor is vented for good thermal contact with the ambient air. The back half of the ABS enclosure can be removed for a low profile wall mounting with a single screw through the center of the enclosure. The stranded Teflon cable is wired as follows:

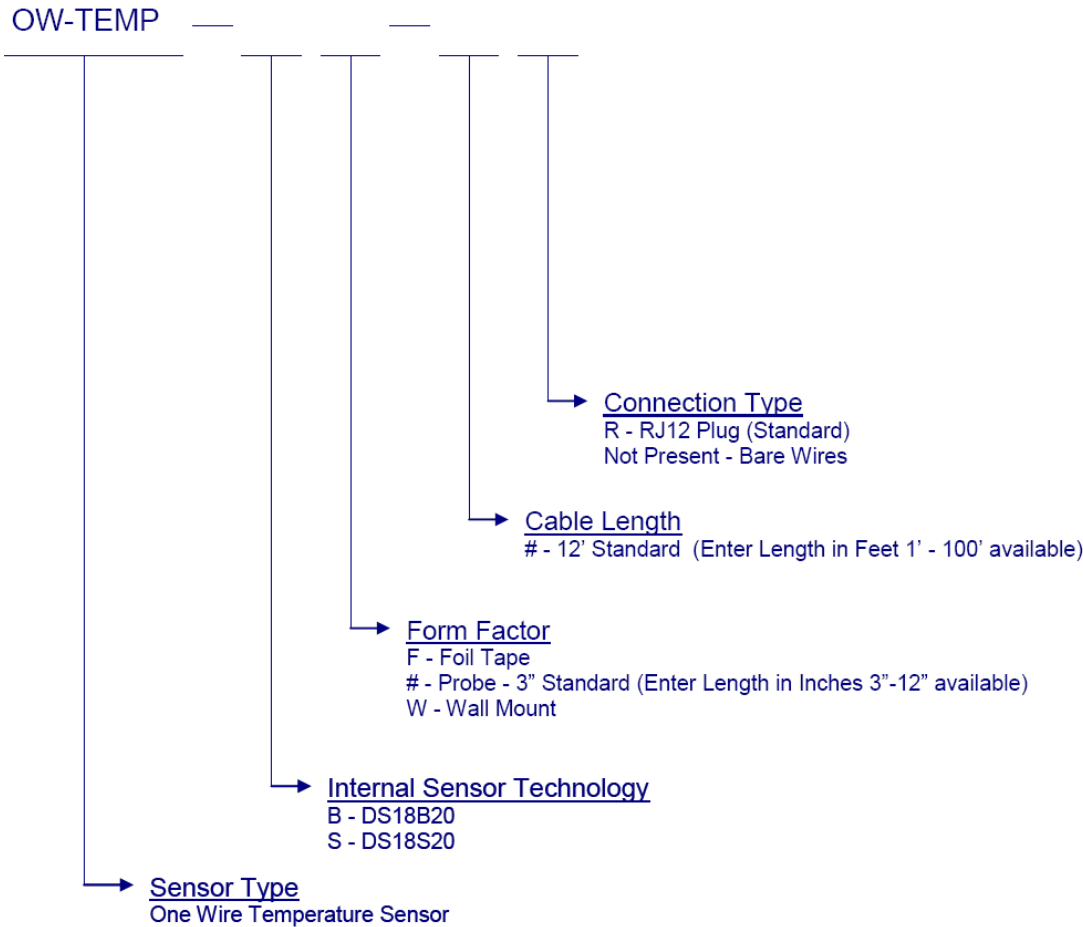
Pin 3: 1-Wire Signal, *Blue*
Pin 4: Common (GND), *White*
Pin 6: Ext. Power (V_{DD}), *Orange*

Please note that if you choose to operate the DS18x20 sensor in parasitically powered mode, you must connect the V_{DD} and GND lines together, per the DS18x20 specifications. When ordered with the optional RJ12 plug, we take the extra steps necessary during the plug installation to properly configure the DS18x20 sensor for parasitically powered operation.

The wall mount temperature sensors are directly compatible with all Embedded Data Systems and Dallas 1-Wire bus masters. Like all of Embedded Data Systems' temperature sensors, there is a wide array of available software including EDIOS and the freely available TMEX drivers. For complete documentation on the embedded DS18x20 sensors, please refer to manufacturer's spec sheets available at <http://www.maxim-ic.com/>.

PART NUMBERS

Please use the following chart to determine the appropriate part number for ordering:



Part #'s without minimum order requirement:

OW-TEMP-BW-12	Standard wall mount sensor: DS18B20, 12' cable
OW-TEMP-SW-12	Standard wall mount sensor: DS18S20, 12' cable
OW-TEMP-BW-12R	Standard wall mount sensor: DS18B20, 12' cable, RJ12 plug installed
OW-TEMP-SW-12R	Standard wall mount sensor: DS18S20, 12' cable, RJ12 plug installed

SPECIFICATIONS

PARAMETER	SYMBOL	MIN	TYP	MAX	UNITS
Temperature Range (Enclosure)	TR	-30	-	225	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
Resolution (DS18S20)		9	9	9	Bits
Supply Voltage	Vdd	3.0	5.0	5.5	Volts
Active Current	Idd		1000	1500	MicroAmp
Standby Current	Iq		100	150	NanoAmp
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	L=2.40	W=1.85	D=0.93	In.