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elektronikai alkatrész áruház

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DS18B20

DS18B20 waterproof digital temperature sensor probe

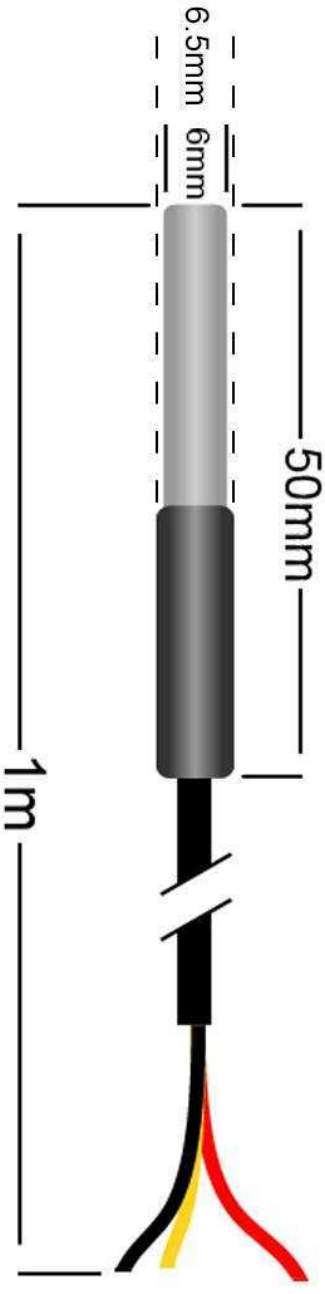
*HESTORE Part no of **DS18B20-1M**.: 1003.5575*

*HESTORE Part no of **DS18B20-2M**.: 1003.9062*

*HESTORE Part no of **DS18B20-5M**.: 1004.1105*

Technical specifications

Power supply range:	3…5.5V
Operating temperature range:	-55...125°C (-67...257F)
Accuracy over the range of -10°C to +85°C:	± 0.5°C
Waterproof sheath material:	Stainless steel
Resolution:	9…12-bit
Query time	Less than 750ms
Size of sheath:	6 x 50mm
Cable diameter:	3.8mm
Length of **DS18B20-1M:**	1 meter
Length of **DS18B20-2M:**	2 meter

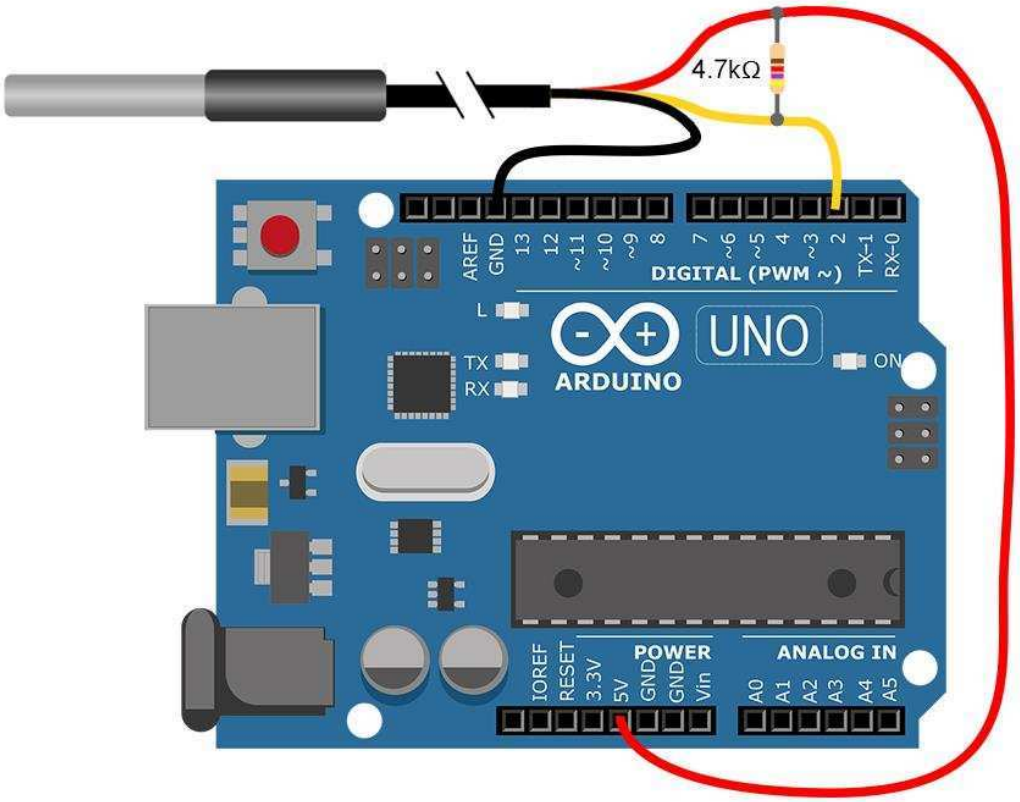


Introduction

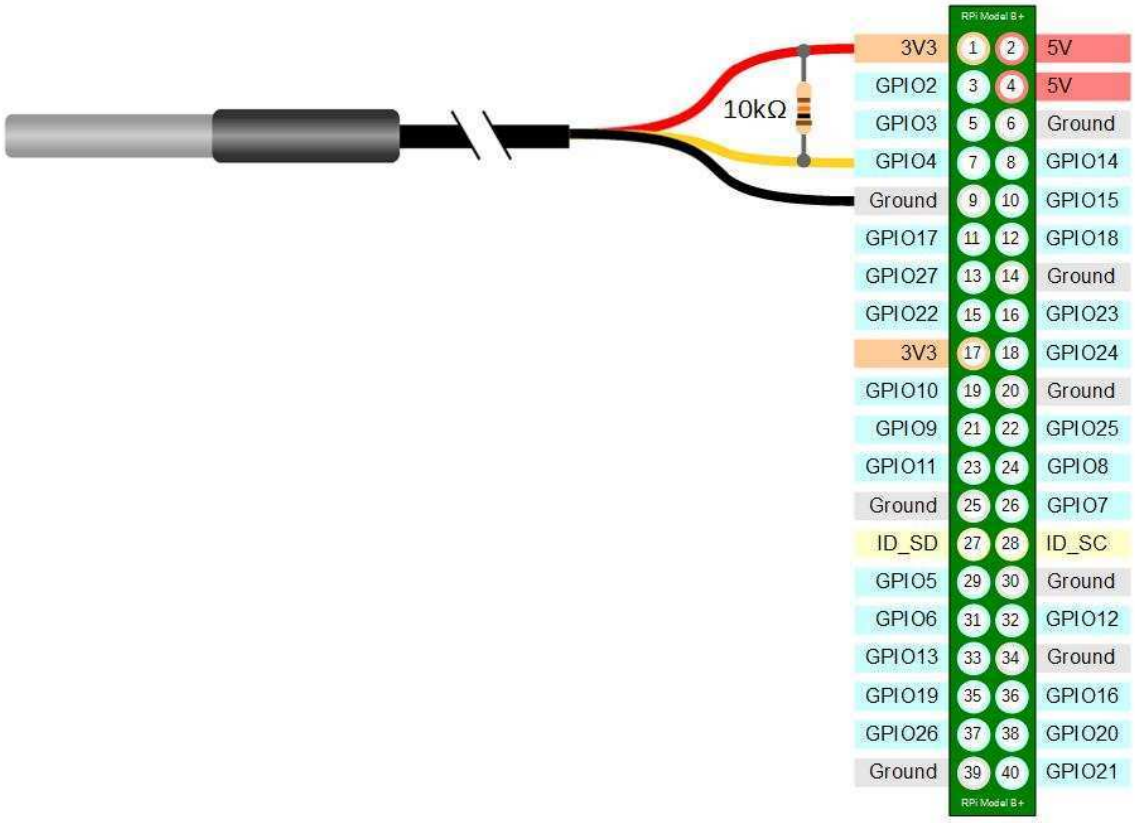
This is a waterproofed version of the DS18B20 Temperature sensor. Handy for when you need to measure something far away, or in wet conditions. While the sensor is good up to 125°C the cable is jacketed in PVC so we suggest keeping it under 100°C. Because they are digital, you don't get any signal degradation even over long distances! The DS18B20 provides 9 to 12-bit (configurable) temperature readings over a 1-Wire interface so that only one wire (and ground) needs to be connected from a central microprocessor. Usable with 3.0-5.5V systems.

Because each DS18B20 contains a unique silicon serial number, multiple DS18B20s can exist on the same 1-Wire bus. This allows for placing temperature sensors in many different places. Applications where this feature is useful to include HVAC environmental controls, sensing temperatures inside buildings, equipment or machinery, and process monitoring and control.

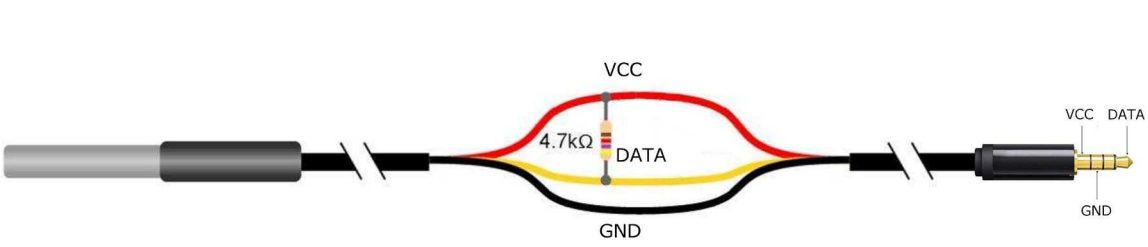
Wiring example with Arduino UNO R3



Wiring example with Raspberry Pi 3 Model B+



Wiring example with SONOFF TH10



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