

## DS18B20 (TO-92) Magnetic Mount



ShrikeNite

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### Summary

Temperature sensor magnetic mount

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I wanted to monitor my domestic water heater's flange temperature but found that commercially available DS18B20 sensors (prewired kind) didn't make good contact with the flange, making the temperature measurement laggy and inaccurate.

The design uses two magnets to create a pivot point. The third magnet pulls the face of the sensor onto the magnetic surface being measured and provides minimum lag temperature measurement. Magnets are 5 mm diam x 5 mm thick (thickness isn't crucial)

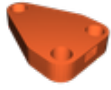
I used PETG (ABS should be okay) for my application, measuring up to 65 °C

Once soldered, insulate at least the centre pin of the sensor (not shown in the photos). I used insulation from a 1mm<sup>2</sup> wire.

Use RTV Silicone to glue the sensor in place. Wipe off excess silicone and attach to a metal surface so that the sensor remains flush while the silicone cures.

# Model files

ds18b20-to-92-magnetic-mount.stl



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