

### **Adding customer defined Temperature Sensors**

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### how to use custom sensor

Some DMM Models added an ability to create a custom temperature sensor in a firmware update.

Here is a summary for creating that sensor data on a SDM3055-SC

- 1. Turn on the temperature measurement function of the multimeter.
- 2. Turn on custom sensor options.



3. Create a sensor by yourself.

(1)Click 'New' to create a new sensor file.



(2) Click 'file name' to modify the file name.

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(3)Click 'Attribute'.



(4) Click 'Type' to select the type of sensor in the 'Type' option. Here I choose DCV and the multimeter will show the voltage value of the sensor.



(5)Click 'Sensor Name' to set a name.

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(6)Click 'Unit' to choose units of temperature. Here I choose °C.

Current Path	/internal			
File Name:	sensor_d	ata_1		

(7) Click 'Sensor Table' to setting the values you measure and the corresponding values. Because the sensor type previously selected was DCV[]so the column on the left shows the actual measured values, unit is mV. the right column is the corresponding temperature value, unit is °C . According to this sensor datasheet, the values we measure will be converted into temperature values.

Number	Measured Value	Corresponding		
	-0.001000	20.000000		
2	0.000000	30.000000		
3	0.001000	40.00000		
4	0.002000	50.000000		
5	0.006000	60.000000		
	Class			



(8)Click 'Store' to save.



4. Back and click 'Load' to open the sensor file you just saved.



5. This is the temperature value measured with custom sensor.

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