Adding customer defined Temperature Sensors

September 14, 2023

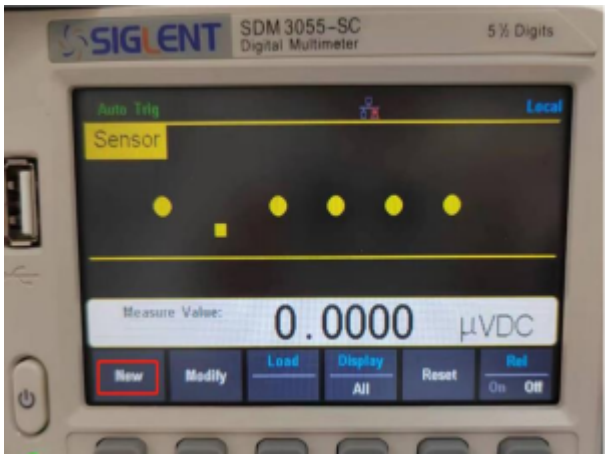
how to use custom sensor

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

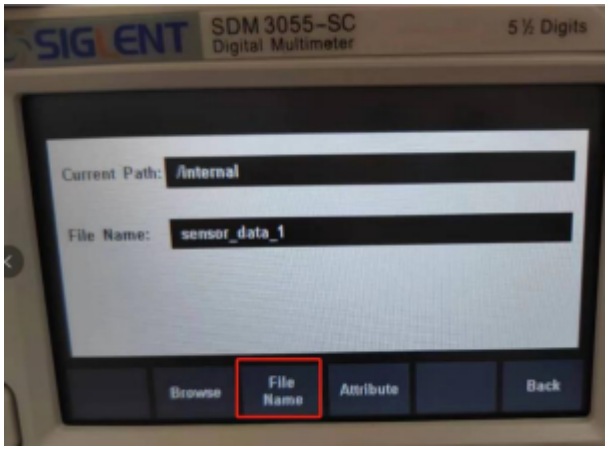
Here is a summary for creating that sensor data on a SDM3055-SC

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

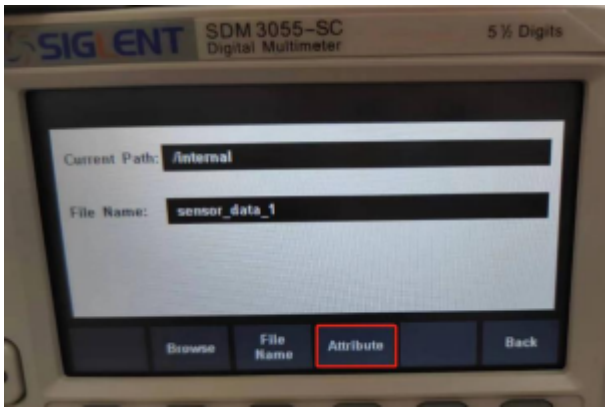
3. Create a sensor by yourself.
(1)Click ‘New’ to create a new sensor file.



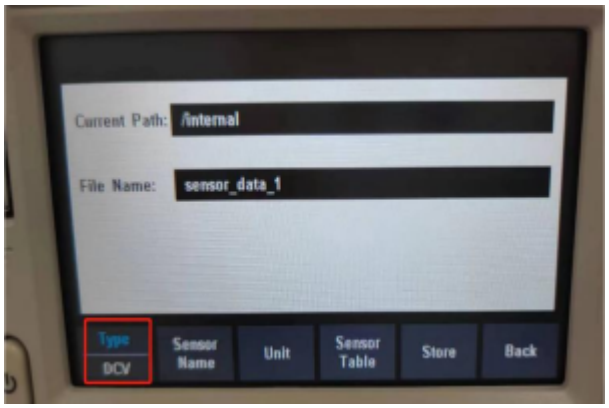
(2) Click ‘file name’ to modify the file name.



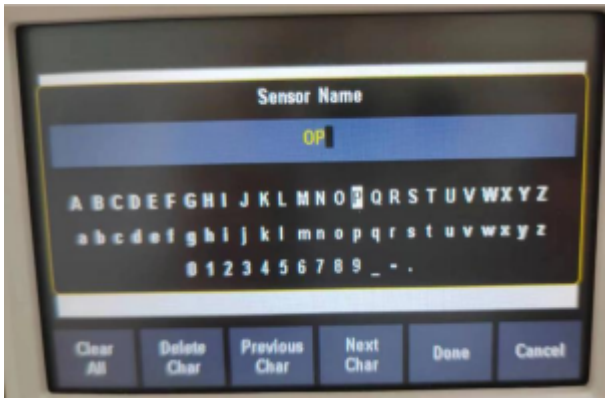
(3)Click ‘Attribute’.



(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.

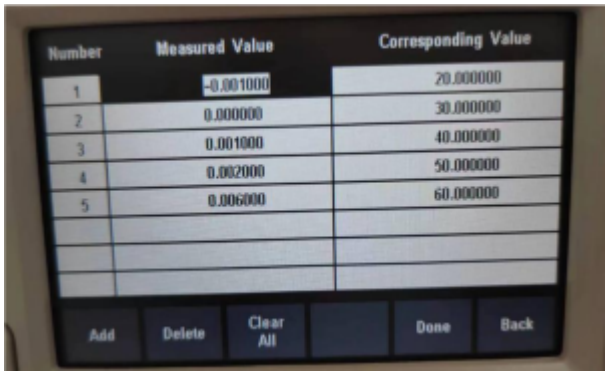


(5)Click ‘Sensor Name’ to set a name.



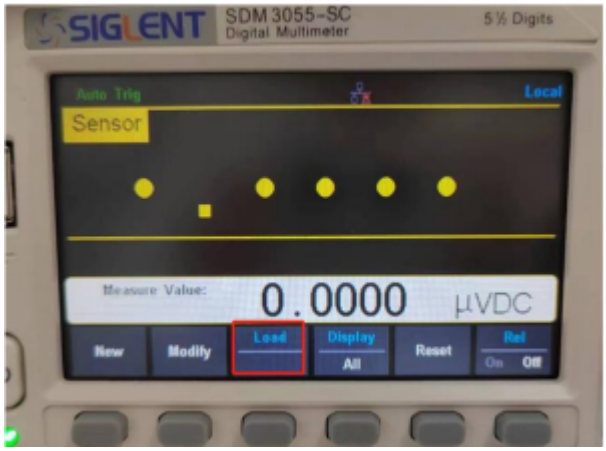
(6)Click ‘Unit’ to choose units of temperature. Here I choose ℃.

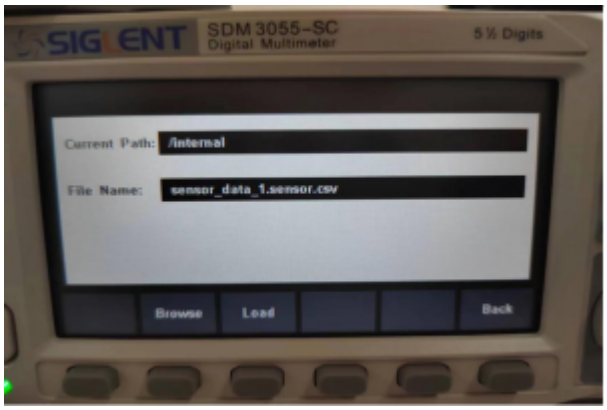
(7) Click ‘Sensor Table’ to setting the values you measure and the corresponding values. Because the sensor type previously selected was DCV，so the column on the left shows the actual measured values, unit is mV. the right column is the corresponding temperature value, unit is ℃ . According to this sensor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



(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.

SIGLENT
SDM3055-SC
Digital Multimeter
5½ Digits
Auto Trig
Local
Sensor
30.019
℃
Measure Value:
1.9772
µVDC
New
Modify
Load
OP
Display
All
Reset
Rel
On
Off

North American Headquarters

SIGLENT Technologies NA
6557 Cochran Rd Solon, Ohio 44139
Tel: 440-398-5800
Toll Free:877-515-5551
Fax: 440-399-1211
info@siglent.com
www.siglentamerica.com/

European Sales Offices

SIGLENT TECHNOLOGIES GERMANY GmbH
Staetzlinger Str. 70
86165 Augsburg, Germany
Tel: +49(0)-821-666 0 111 0
Fax: +49(0)-821-666 0 111 22
info-eu@siglent.com
www.siglenteu.com

Asian Headquarters

SIGLENT TECHNOLOGIES CO., LTD.
Blog No.4 & No.5, Antongda Industrial Zone,
3rd Liuxian Road, Bao'an District,
Shenzhen, 518101, China.
Tel:+ 86 755 3661 5186
Fax:+ 86 755 3359 1582
sales@siglent.com
www.siglent.com/ens