Getting started

System requirements:

- Windows PC
- SHT85 - Sensor
- STM32-Discovery board from STMicroelectronics (STM32VLDISCOVERY)[1]
- USB type A to mini-B cable

1. Download the latest version of Microcontroller Development Kit for ARM (MDK-ARM). The software can be used without a product license for a maximum code size of 32 Kbytes.
   Tested Version: 5.25.2
   https://www.keil.com/demo/eval/arm.htm

2. Run the Installer and follow the instructions. (Do not change the default installation path!)
   MDK525.EXE

3. Unzip the sample code and open the Project-File. SHT85_SampleCode.uvprojx
   → Wait for the packet installer and install the requested packets.

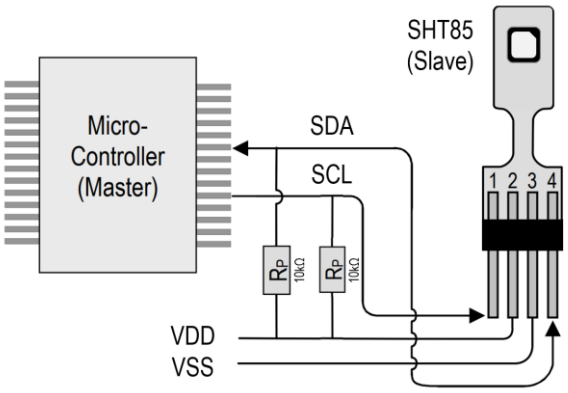
4. Press F7 or click to build the target files.

5. Connect the STM32-Discovery board to the PC with a USB cable.

6. Connect the SHT85 Sensor to the STM32-Discovery board:

STM32-Discovery board	SHT85-Sensor
BP8	1 - SCL
3V3	2 - VDD
GND	3 - GND
BP9	4 - SDA

Typical application circuit, including pull-up resistors Rp = 10kΩ.



7. Start the debugger by pressing Ctrl+F5 or click Debug in the menu → Start/Stop Debug Session.

8. Press F5 or click to run the program.
   The green LED lights if no error occurs, in this case the communication with the sensor works. The blue LED lights up when a relative humidity of more than 50% is measured. You can simulate this by breathing on the sensor.

9. Add the variables error, id, temperature, and humidity to the watcher or set a breakpoint to check the values.

[1] available from: www.digikey.com Part Nr.: 497-10633-ND
www.mouser.com Part Nr.: 511-STM32VLDISCOVERY
www.farnell.com Part Nr.: 1824325