Offline test:

I wrote two short offline tests, one running on Raspberry Pi and the other on Windows 7 / 10 x64. You will need an USB2RS485 adapter for the test.

and a 5V powersupply for plugging into the USB-port of the D1-mini.

Download the .zip file you need and extract it somewhere. On PI you need to step into the folder and run chmod +x ./ solisdatasend_test_w3

Connect the A, B ports of the USB2RS485 to the A, B ports of the circuit, take care that A meets A and B meets B.
Plug the USB2RS485 to the PC or Pi , apply power to the D1-mini
wait a second for the D1 to start
check HomeAssistant for the new device and add it.

Now run the test program from inside the folder, after a few moments
Several values should show up