HMI043W016-soil-1ch installation manual

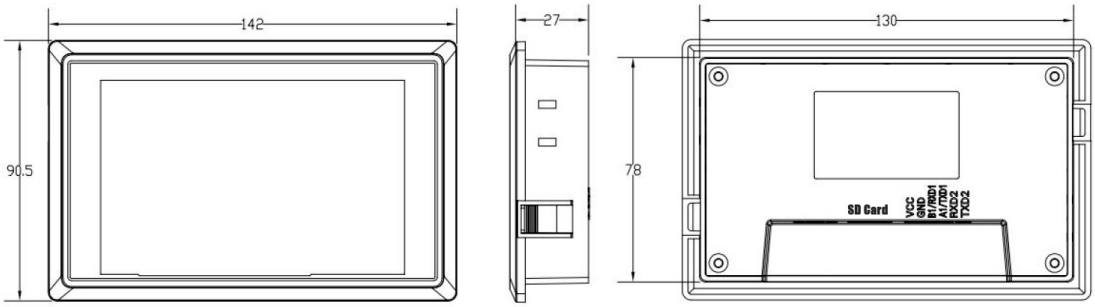
Feature

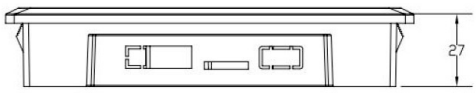
1. Connect only one RS485 soil sensor, work with H-S, TH-S, THC-S, THPH-S, CPH-S, THCPH-S, NPKTHPH-S, NPKTHC-S, NPKPH-S, NPKPHC-S, NPKPHCTH-S (don't work with PH-S, NPK-S)
2. Dashboard and curve for monitoring of soil sensor
3. Support set calibration on screen
4. Support 1900 logs, settable interval of logging, can export logs to SD card

Specification

Power supply	DC9-30V
Max Power consumption	2W
Screen	4.3" TFT LCD
Resolution (PX)	480X272
Communication port	RS485
Operating environment	-10℃-50℃ / 10~90%RH
HMI dimensions	142*70.5*27mm
Hole dimension	130*78mm
Weight	200g

Size

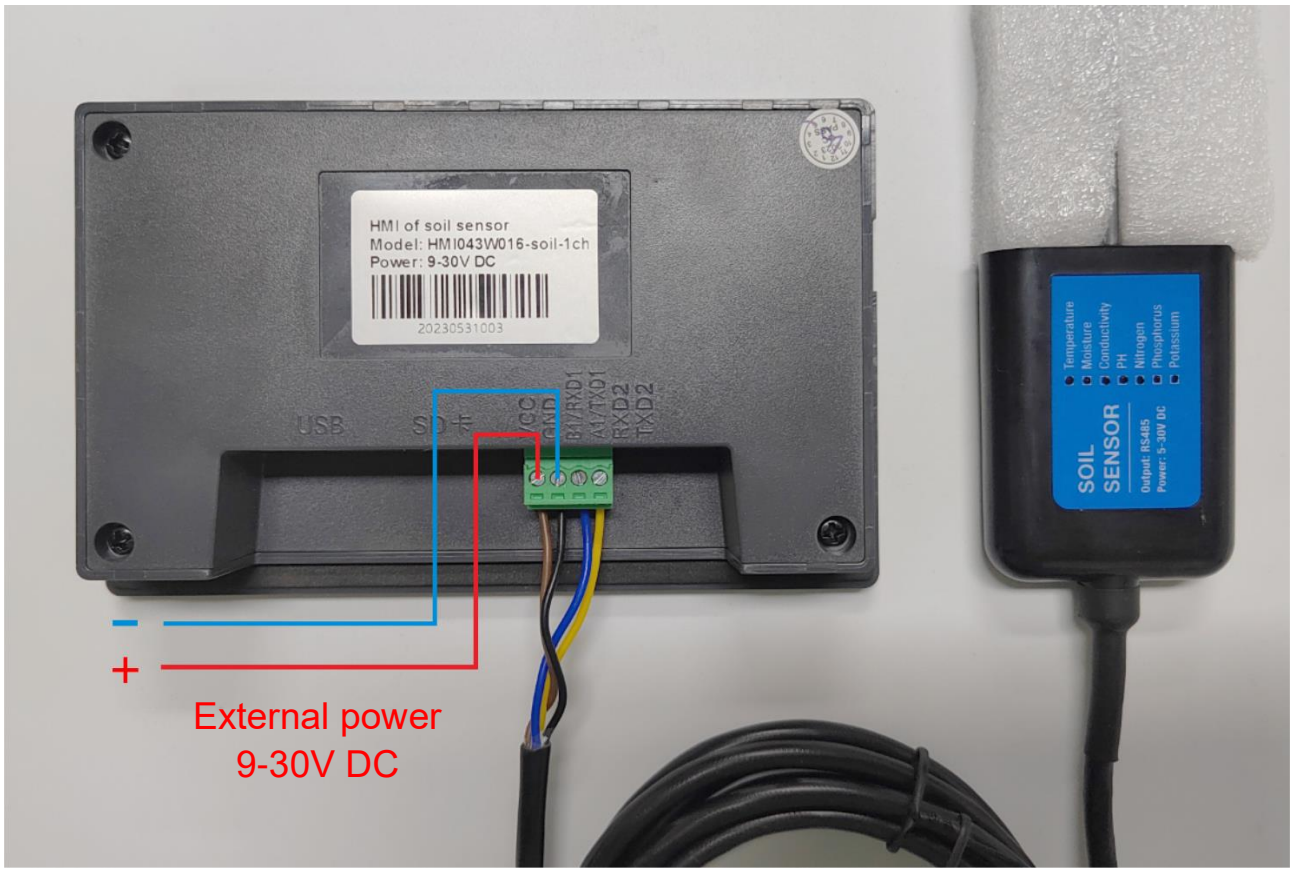




Wiring of 4pin terminals

Index	Pin	Description
1	VCC	Power + (DC9-30V)
2	GND	Power -
3	B1	RS485 B-
4	A1	RS485 A+

How does soil sensor connect to HMI

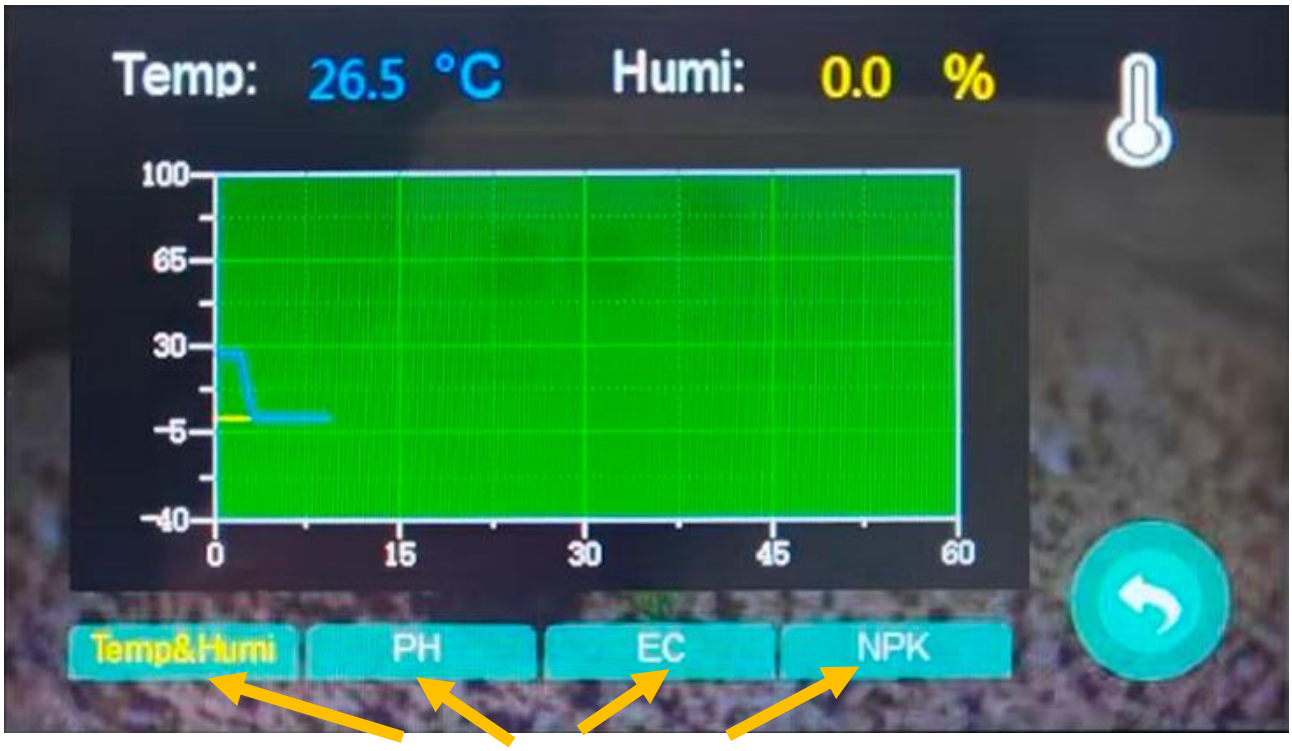


Brown cable connects VCC
Black cable connects GND
Blue cable connects B1
Yellow cable connects A1
External DC power+ connects VCC, External DC power- connects GND

Equipment operating

1. Operating on screen

2. Curve graph page

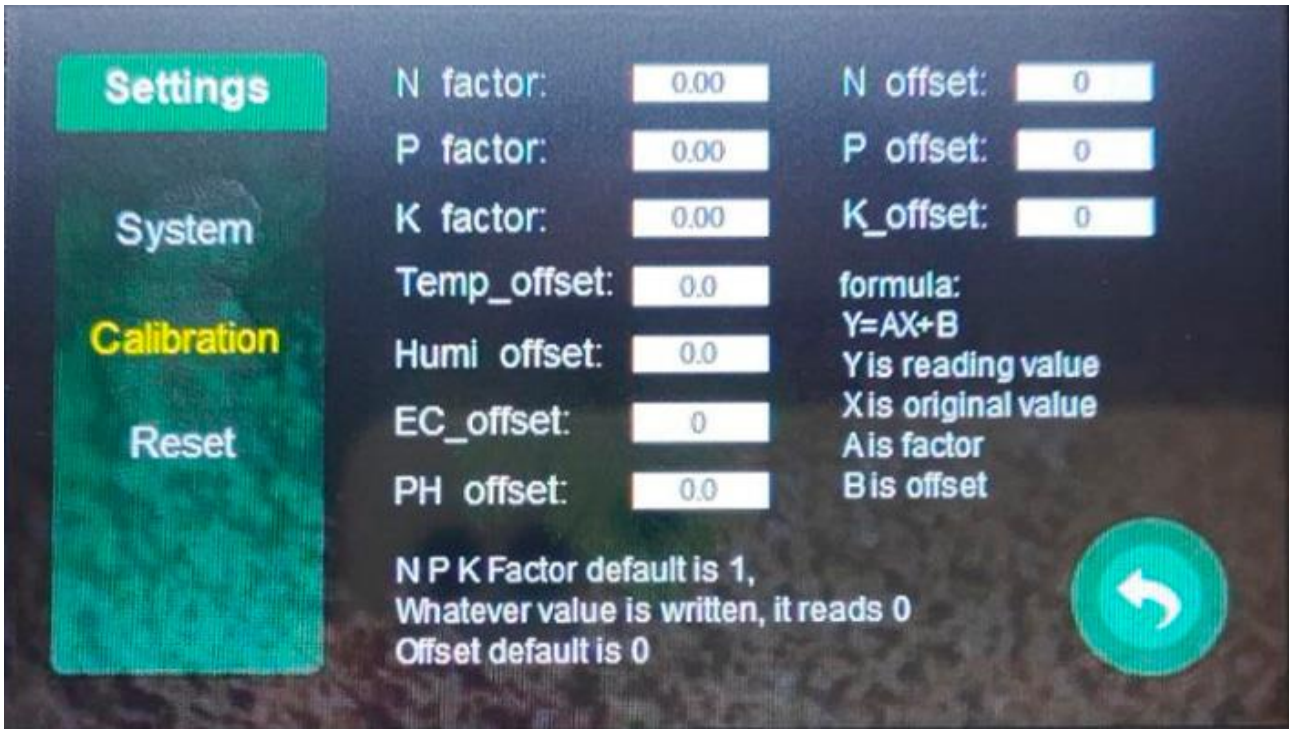


Click button to switch the curve graph of each parameter (TH, PH, EC and NPK)

3. View data log in this page

Interval of logging means how often the device logs data
Max number logs is 1900, logs can be deleted or export to SD card by pressing button.

4. Setting page



In calibration page, can set factor and offset for each measuring parameters.
Factor and offset like the formula
Y=AX+B

Y is reading value
X is original value
A is factor
B is offset

5. Put SD card into reader and plug on computer

Find history file in USB flash disk