RS485 Soil Sensor (4-in-1) – Modbus Datasheet

General

Interface: RS485
Protocol: Modbus RTU
Parameters: Soil Temperature, Soil Moisture, EC, pH

Communication Parameters

Slave ID: 1
Function Code: 03 (Read Holding Registers)
Baud Rate: 4800
Data Bits: 8
Parity: None
Stop Bits: 1

Register Map

Parameter	Address	Hex	Unit	Example
Soil Moisture	0	0x0000	%	0
Soil Temperature	1	0x0001	°C	18.8
Soil EC	2	0x0002	µS/cm	0
Soil pH	3	0x0003	pH	3.0

Notes

Temperature and pH values are scaled (value/10). Use CRC16 for Modbus communication.