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Author	Carol Hsu	Version	1.0.0	Date	2025,08	Page	1 / 6

## ● How to use the COM Port of BRK-2841M?

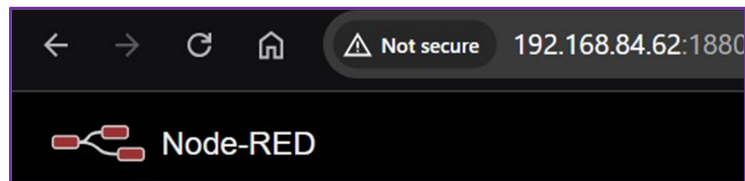
ICP DAS BRK-2841M provides Node-RED communication via COM port. This article explains how to use the COM port of BRK-2841M.

[The example uses BRK-2841M v1.1.0.0 + tM-7561 (USB to RS-485 converter) + Node-RED v4.0.9 + PC with Win11 x64 operating system + Chrome version 138.0.7204.184]

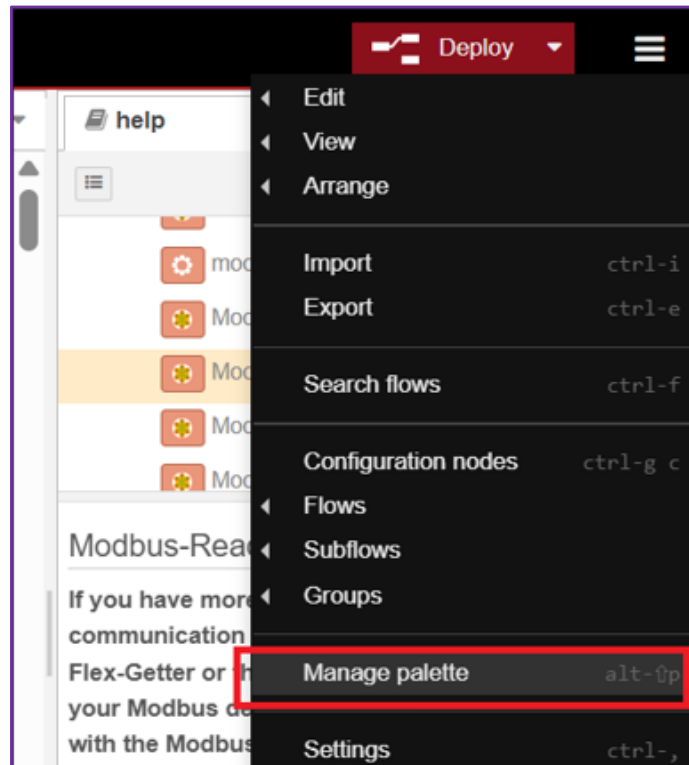
### 1. Enter Node-RED to set up.

1. Open a browser and enter [Your BRK IP]:1880 in the address bar.

[Example as shown below]

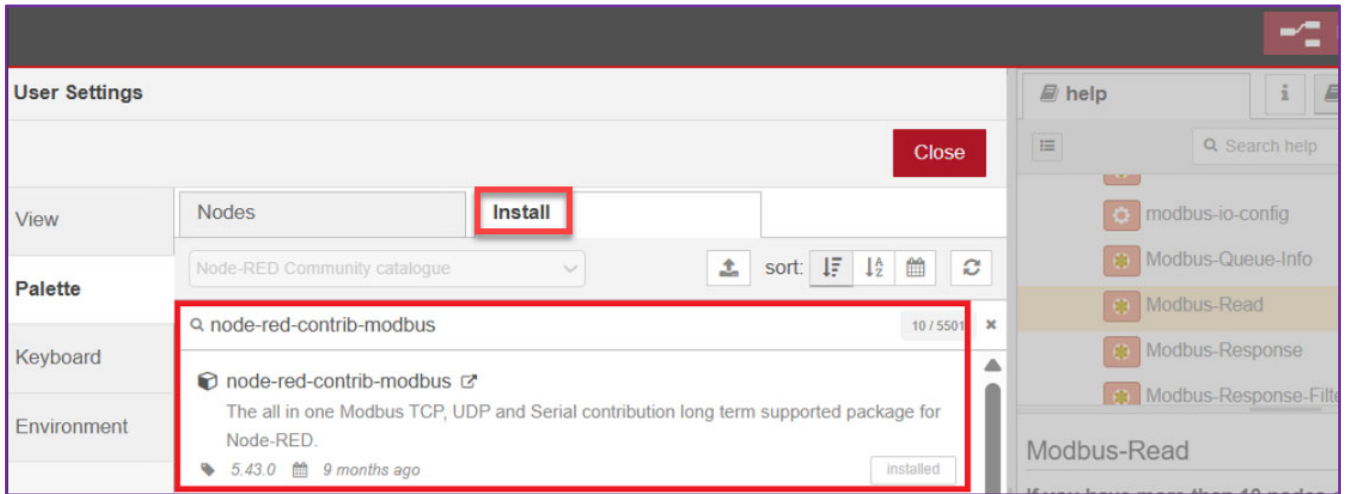


Open the right menu and click [Manage palette].



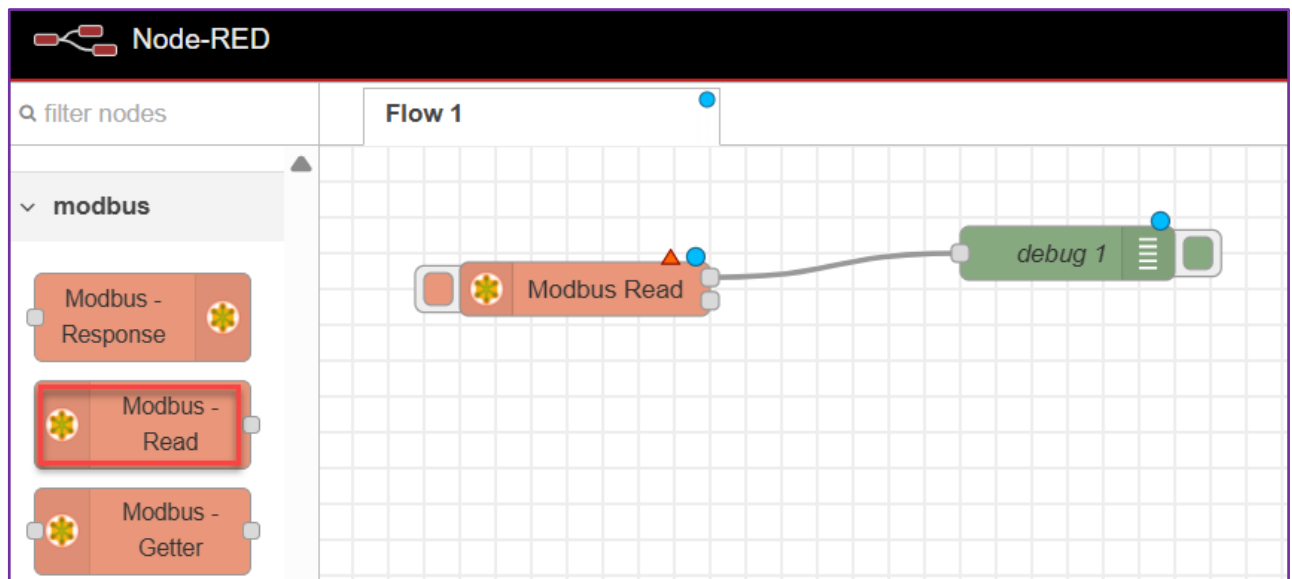
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## Install node-red-contrib-modbus.



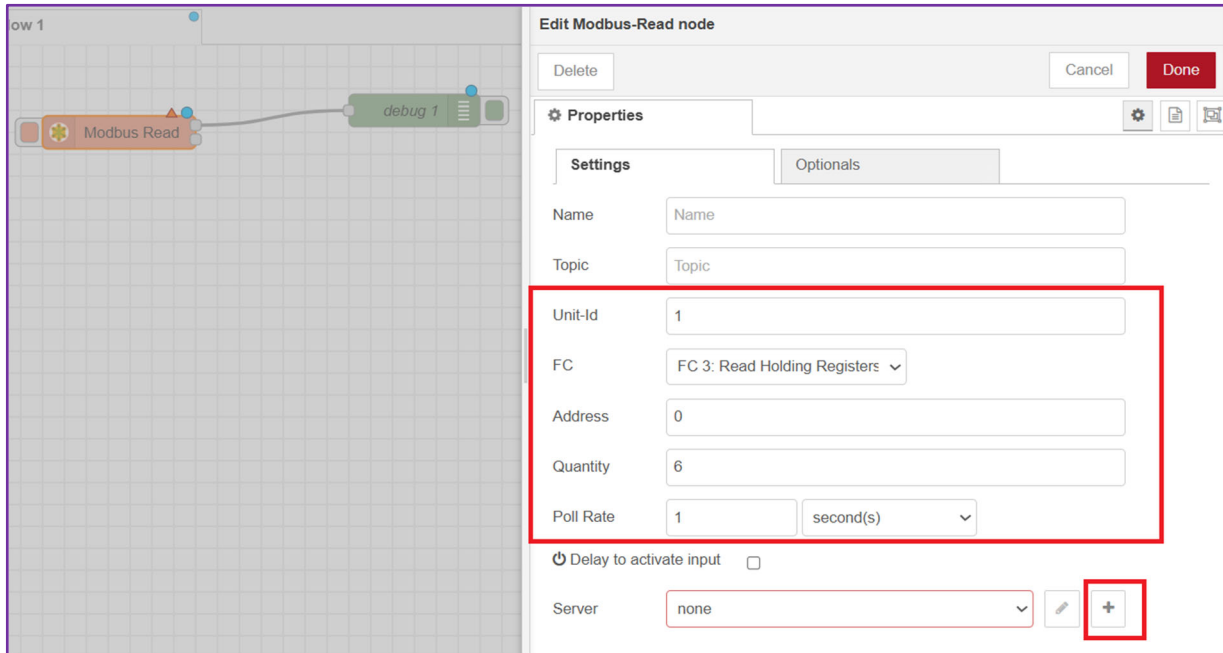
2. Drag the [Modbus Read] and [debug] nodes from the left side, and connect the top output of [Modbus Read] to [debug], as shown below.

(In this example, the BRK-2841M acts as a Modbus RTU Master.)

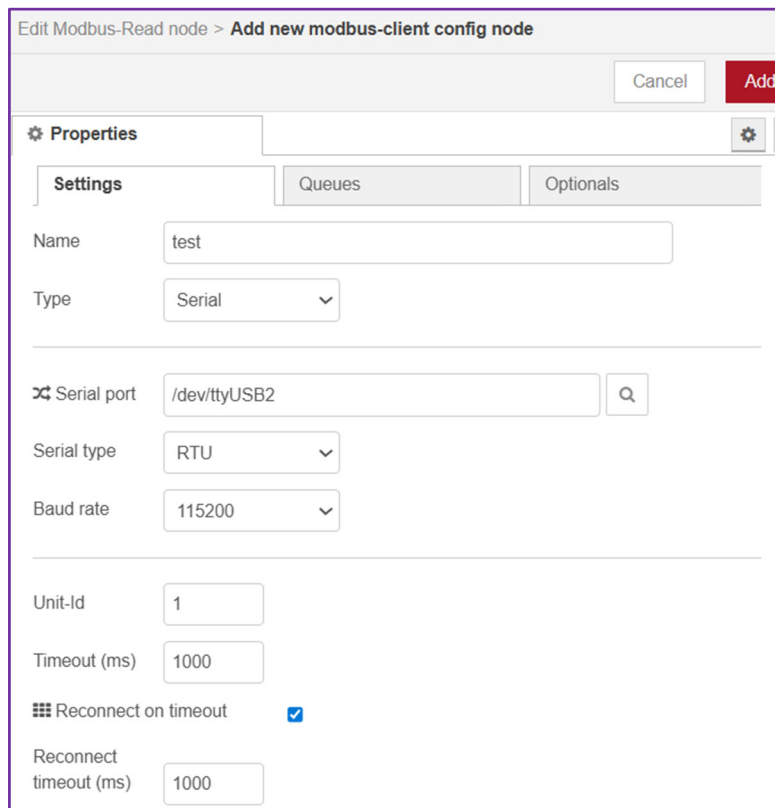


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3. Click the [Modbus Read] node to set up, and then click the plus sign on the right side of the Server. The operation method can be referred to in the red box in the following figure.



4. After clicking the plus sign, set the Serial port and click [Update], as shown below. (We take COM4 as an example, so fill in /dev/ttyUSB2 for the Serial port. See Appendix for device name details.)

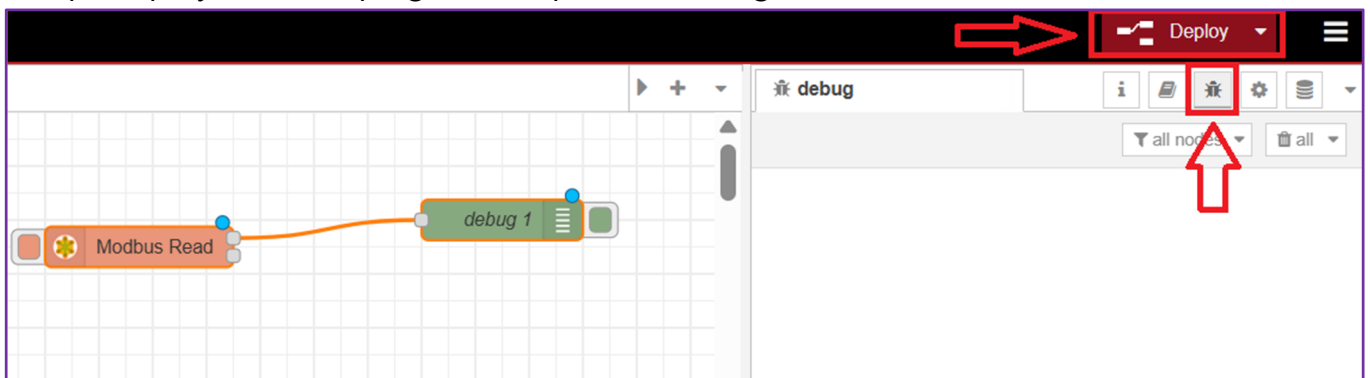


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5. Select the [test] item you just set and click Finish, as shown below.

The screenshot shows the 'Edit Modbus-Read node' dialog box. At the top right, there are three buttons: 'Delete', 'Cancel', and 'Done'. The 'Done' button is highlighted with a red rectangular box. Below the buttons is a 'Properties' section with two tabs: 'Settings' (selected) and 'Optionals'. The 'Settings' tab contains several input fields: 'Name' (text box), 'Topic' (text box), 'Unit-Id' (text box with '1'), 'FC' (dropdown menu showing 'FC 3: Read Holding Register'), 'Address' (text box with '0'), 'Quantity' (text box with '6'), 'Poll Rate' (text box with '1' and a dropdown menu with 'second(s)'), and a checkbox for 'Delay to activate input'. At the bottom, there is a 'Server' dropdown menu with 'test' selected, which is also highlighted with a red rectangular box. To the right of the 'Server' dropdown are two small icons: a pencil and a plus sign.

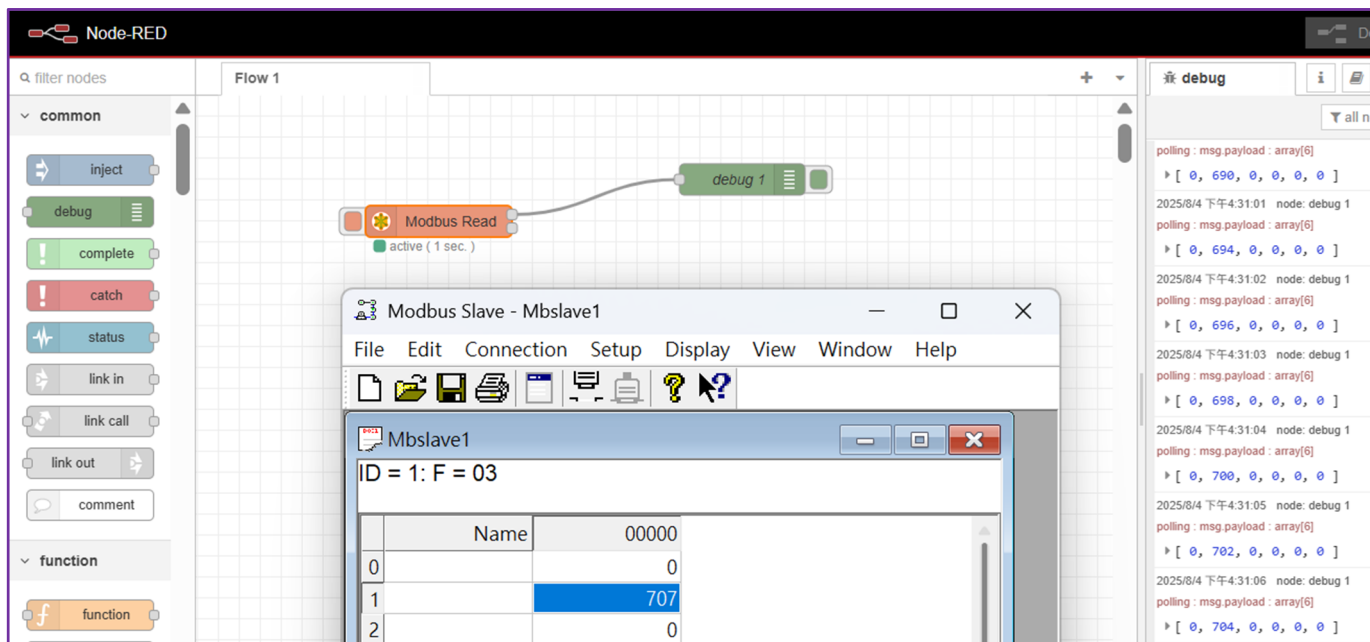
6. Tap [Deploy] at the top right and open the debug window, as below



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7. Connect the COM4 cable of the BRK-2841M and open the Modbus RTU Slave software. You can view the communication status in the debug window.

[Wiring architecture: BRK-2841M → tM-7561 (USB to RS-485 converter) → Your computer]



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## 2. Appendix

### Serial port name of BRK-2841M

Name	Enclosure Name	Note
/dev/ttyUSB2	COM4	
/dev/ttymx1	COM3	
/dev/ttyUSB0	COM2	
-	Console Port	

