

RIU MODBUS MAP

The available registers are PV1, 2, and 3, which correspond to the real-time value of the respective process variable as displayed on the RIU screen, and the Relay Status (0 = relay off, 1 = relay on). Use MODBUS RTU Protocol.

Parameters:

Baud: 9600; Byte Size: 8; Parity: Even; Stop Bits: 1; Timeout: 500 ms; Flow Control: None

Data must be interpreted using reversed words (eg. 'Read Holding Float R Words' command or similar).

This requests 2 words from registers 1000 and 1001. It then reverses the order of the words before interpreting them as a float.

Read Registers:

Data Name	Data Register	Data Size	Data Type
PV1	1000	Double word	Float
PV2	1002	Double word	Float
PV3	1004	Double word	Float
Relay Status	20511	Double word	Float

Notes:

- PV1, 2 and 3 correspond to the 3 parameters displayed by an RIU (eg. %Sat, mg/L, degC).
- If there is only 1 display parameter for the RIU, just use PV1 (eg. %Sat).
- The data registers are given as an offset from 40001.

