

4.3 Setting and checking

4.3.1 Setting and checking items

The table below explains the setting items of the MODBUS communication function and the initial values.

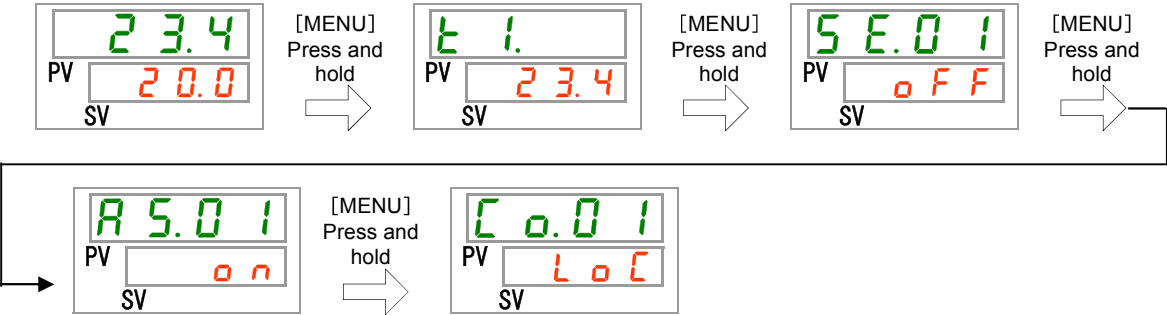
Table 4.3-1 Communication setting items

Display	Item	Contents	Initial value (Default setting)
[0.0 1]	Communication mode	Sets communication mode of this product.	LOC
[0.0 2]	Serial protocol	Sets serial communication protocol.	MDBS
[0.0 3]	Communication specification	Sets standard of the serial communication.	485
[0.0 4]	RS-485 terminal	Sets of the terminal of RS-485.	OFF
[0.0 5]	Slave address (MODBUS)	Sets slave address of MODBUS protocol. [----] is displayed when the setting of serial protocol is not MODBUS.	1
[0.0 6]	Communication speed (MODBUS)	Sets communication speed of MODBUS protocol. [----] is displayed when the setting of serial protocol is not MODBUS.	19.2

4.3.2 Setting and checking

Communication Setting and checking

- 1.** Press and hold the [MENU] key for 2 sec.
- Repeat pressing the key until the setting screen for communication mode [C o.0 1] appears on the digital display.



- 2.** Select “SER” from the table below with the ▲key, and confirm with “SEL”.

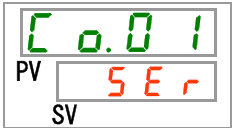


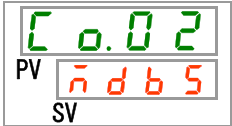
Table 4.3-2 List of set values

Set values	Explanation	Initial value (Default setting)
L o C	Sets LOCAL mode.	○
d I o	Sets DIO mode.	
S E r	Sets SERIAL mode.*1	

*1 : If the serial protocol is “Simple communication protocol 2” and the contact input 1 is “external switch signal” or contact input 2 is “remote signal”, “SERIAL mode” cannot be set.

Serial protocol Setting and checking

- 3.** Press the [SEL] key once.
- The set screen of serial protocol is displayed on the digital display.



4. Select serial protocol from the table below with [▲] key or [▼] key, and confirm by pressing "SEL".

Table 4.3-3 List of set values

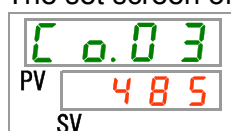
Set values	Explanation	Initial value (Default setting)
MODBUS	MODBUS protocol	○
PRO1	Simple communication protocol 1	
PRO2	Simple communication protocol 2 ^{*2}	

*2 : When the setting of the contact input 2 is "Remote signal", "Simplified communication protocol 2" cannot be set.

Communication specification Setting and checking

5. Press the [SEL] key once.

The set screen of communication specification is displayed on the digital display.



6. Select communication specification from the table below with [▲] key or [▼] key, and confirm by pressing "SEL".

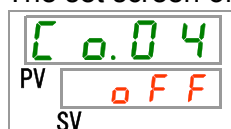
Table 4.3-4 List of set values

Set values	Explanation	Initial value (Default setting)
232C	RS-232C standard	
485	RS-485 standard	○

RS-485 terminal Setting and checking

7. Press the [SEL] key once.

The set screen of RS-485 terminal is displayed on the digital display.



8. Select RS-485 terminal from the table below with [▲] key or [▼] key, and confirm by pressing "SEL".

Table 4.3-5 List of set values

Set values	Explanation	Initial value (Default setting)
0FF	Without terminal	○
0n	With terminal	

Slave addresses (MODBUS) Setting and checking

9. Press the [SEL] key once.

The set screen of slave addresses (MODBUS) is displayed on the digital display.

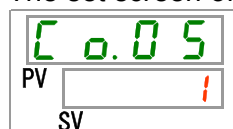
**10.** Select slave addresses (MODBUS) from the table below with [▲] key or [▼] key, and confirm by pressing "SEL".

Table 4.3-6 List of set values

Set values	Explanation	Initial value (Default setting)
---	Setting/checking are not available unless the serial protocol setting is MODBUS.	
to 99	Sets of slave addresses for MODBUS. Set range is 1 to 99.	

Communication speed (MODBUS) Setting and checking

11. Press the [SEL] key once.

The set screen of communication speed (MODBUS) is displayed on the digital display.

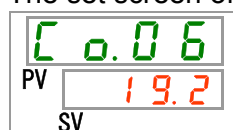
**12.** Select communication speed (MODBUS) from the table below with [▲] key or [▼] key, and confirm by pressing "SEL".

Table 4.3-7 List of set values

Set values	Explanation	Initial value (Default setting)
---	Setting/checking are not available unless the serial protocol setting is MODBUS.	
9.6	9600bps	
19.2	19200bps	○