

Contents

1.Installation	1
2.Dimensions.....	1
3.Connection Instruction.....	1
4.Function Keys.....	2
5.RS-485 Communication	4
6.Troubleshooting	4

1. Installation



The converter is designed for input current, so input voltage is not allowed. The input current must be within a certain range. We will not be responsible or held liable for any damages caused by abnormal input current.



2. Dimensions

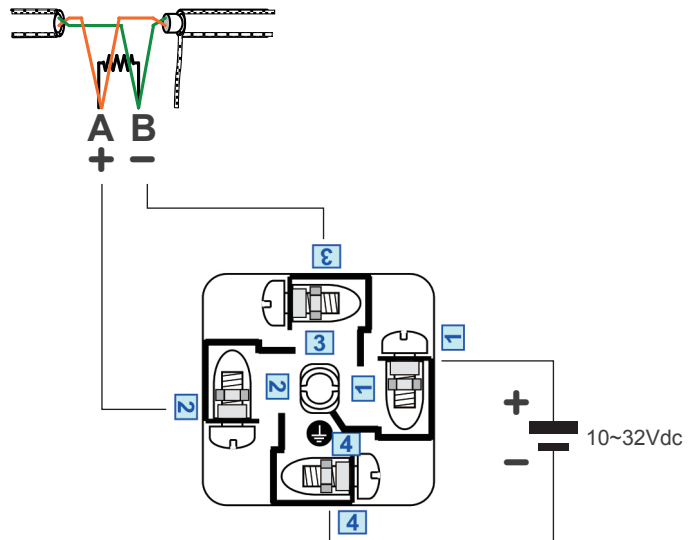


3. Connection Instruction

Wide input voltage range: 10~32Vdc. Please note that reverse wire for line A/B is not allowed when connecting RS485 communication cables, and duplicate address will become invalid.



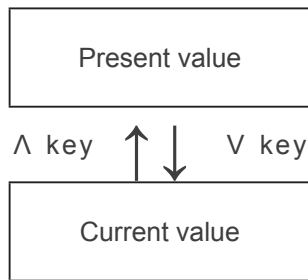
- Pin1: Power + (10~32Vdc)
- Pin2: RS-485 A+
- Pin3: RS-485 B-
- Pin4: Power -



4. Function Keys

4.1 Present value display

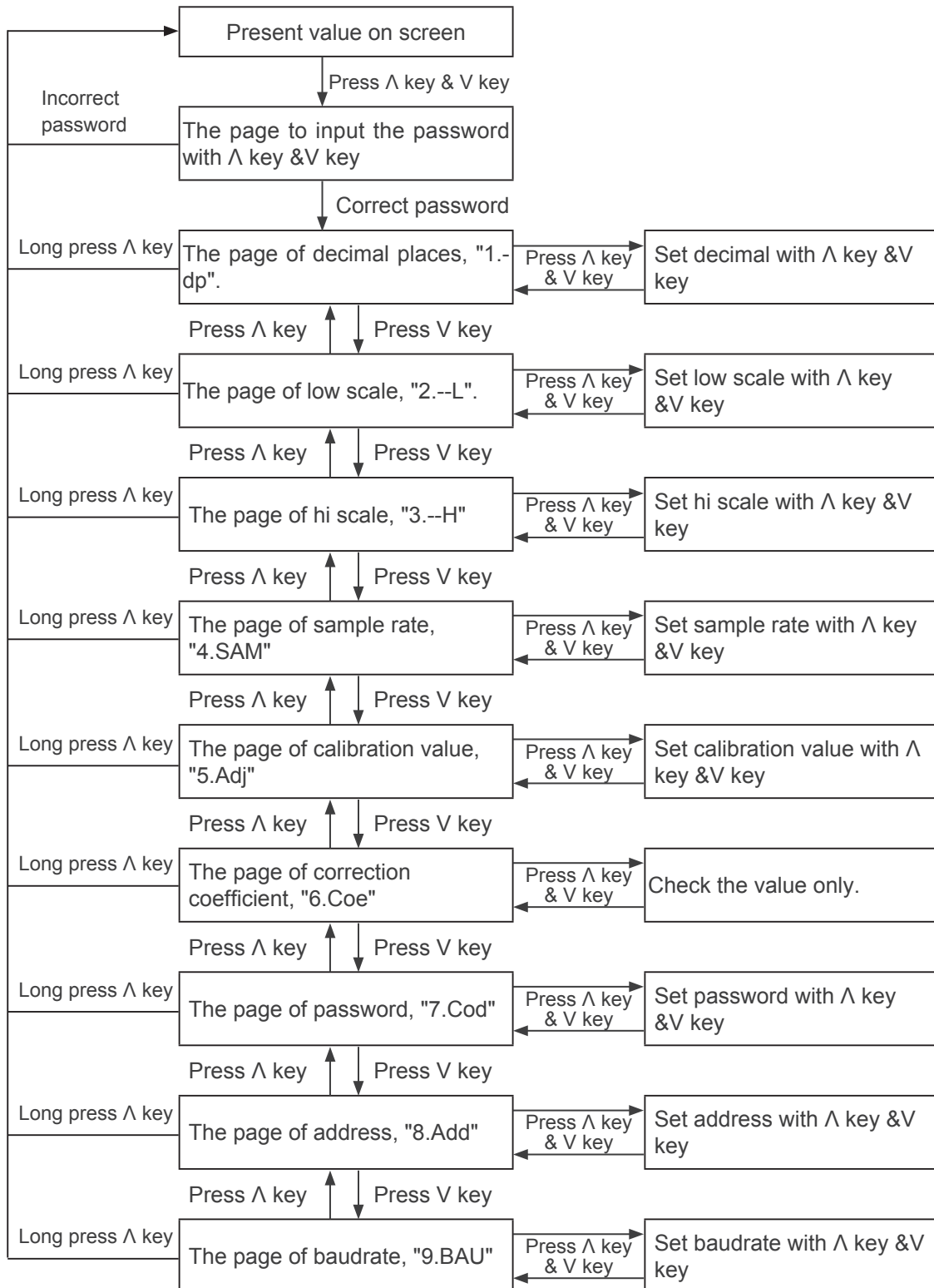
Press "Λ" & "V" to check present value and current value.



4.2 Parameter setting

Able to set decimal places, zero range, full-scale range, sampling rate, calibration value, correction coefficient view, password, address, and baudrate.

Display	Name	Description
1.-dp	Decimal places display	Press "Λ" & "V" until the light flickers, and enter into the page of decimal places. The setting range: 0~3, default value: 2.
2.--L	Low scale setting	Press "Λ" & "V" until the light flickers, and enter into the page of low scale. The setting range: -999~9999, default value: 0.
3.--H	Hi scale setting	Press "Λ" & "V" until the light flickers, and enter into the page of hi scale. The setting range: -999~9999, default value: 100.
4.SAM	Sampling rate	Press "Λ" & "V" until the light flickers, and enter into the page of sampling rate. The setting range: 10~100, default value: 20.
5.Adj	Calibration value setting	Press "Λ" & "V" until the light flickers, and enter into the page of calibration value. The setting range: -999~9999, default value: 0.
6.Coe	Correction coefficient view	Press "Λ" & "V" until the light flickers, and enter into the page of correction coefficient. Check the value only.
7.Cod	Password setting	Press "Λ" & "V" until the light flickers, and enter into the page of password. The setting range: 0~999, default value: 123.
8.Add	Address setting	Press "Λ" & "V" until the light flickers, and enter into the page of address. The setting range: 1~255, default value: 1.
9.BAU	Baudrate setting	Press "Λ" & "V" until the light flickers, and enter into the page of baudrate. The setting range: 240/480/960, which represent the Baudrate of 2400/4800/9600; default value: 480.



5. RS-485 Communication

5.1 Parameters

Protocol: Modbus RTU mode

Address: 1~255

Baud rate: 2400, 4800(default), 9600

Parity: None

Data bits: 8 bits

Stop bit: 1 bit

Distance: 1200 M (max)

Terminate resistor: 120~300Ω/0.25W(typical: 150Ω)

5.2 Parameters table

Code: 03h

Address	Description	Size	Data format	Range	Unit	Default	R/W	Notes
0x0000	Present value	1	INT16	-999~9999	0.01		R	
0x0001	Present value	1	INT16	-999~9999	0.1		R	
0x0002	Present value	2	FLOAT32	-999~9999			R	

Code: 03h, 06h

Address	Description	Size	Data format	Range	Unit	Default	R/W	Notes
0x0104	Low scale	2	FLOAT32	-999~9999			R/W	
0x0106	Hi scale	2	FLOAT32	-999~9999			R/W	
0x0108	Calibration value	2	FLOAT32	-999~9999			R/W	
0x07D0	Address setting	1	INT16U	1~255		1	R/W	
0x07D1	Baud rate setting	1	INT16U	0: 2400 1: 4800 2: 9600		1	R/W	

6. Troubleshooting

Converter can't connect with PLC / PC

- (1) Connect with incorrect COM port
- (2) Incorrect address or duplicate address (default value: 1)
- (3) Incorrect setting: baud rate, correction, data bits, stop bits
- (4) Time interval and reponse time should be set at least 200ms.
- (5) RS-485 cable breaks, or reverse wiring (A line, B line)
- (6) It must go with RS-485 extender and terminate resistor (150Ω) if connecting with too many devices, or placing overlong wiring
- (7) USB to RS-485 driver uninstalls, or damages
- (8) Devices damage

文件修改履歷		
日期	修正內容	版本
2021/12/13	初版	1.0
2021/12/22	新增0x7d0、0x7D1	1.0