

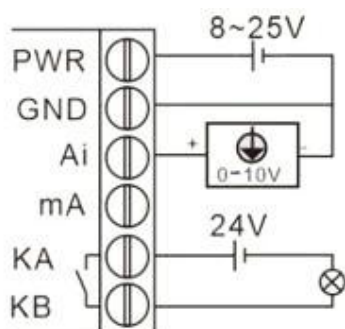
Programmable Analog 0-10V 0-20mA 4-20mA 2-10V Display Meter Panel-mounted High Precision

XDB-BSX-011\012\013 (Option [Standard type]has no relay inside and no RS485 MODBUS functions, pls do note that.)

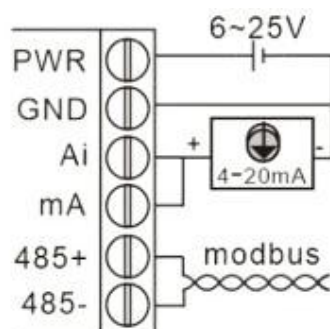
Main Features

- **Standard Type:** Default 0-10V 0-20mA 2-10V 4-20mA display meter. RS485 port type and Relay output type are available.
- **Default standard type and RS485 port type:** no relay inside, operating power supply DC 6-25V, power consumption 24V/40mA;
- **Relay output type:** operating power supply DC 8-25V, power consumption 24V/50mA; have polarity reverse and anti-surge protection functions. No RS485 MODBUS function
- 1-channel current or voltage signal input, selectable.
- Voltage signal input impedance: >30kΩ, current input impedance: <250Ω
- 0.56inch 4-byte LED tube display.
- Parameters are programmable through 3 buttons, convenient to use.
- RS485 port type supports standard MODBUS-RTU protocol, and supports communication among display meters.
- Relay output type has 1-channal normally open relay output, relay output load capacity: 3A, 30VDC/3A, 250VAC.
- Front view dimension: 79x43x25mm. installation cut-out size: 76.5x39.5mm
- RS485 port type: display meter address, baud rate, communication interval time, etc parameters are pogrammable.
- Relay output type: relay output status, conditions, etc parameters are programmable.

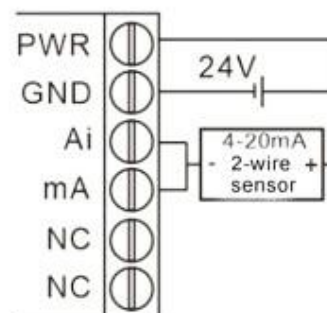
Referential Wiring Circuits:



Voltage signal input



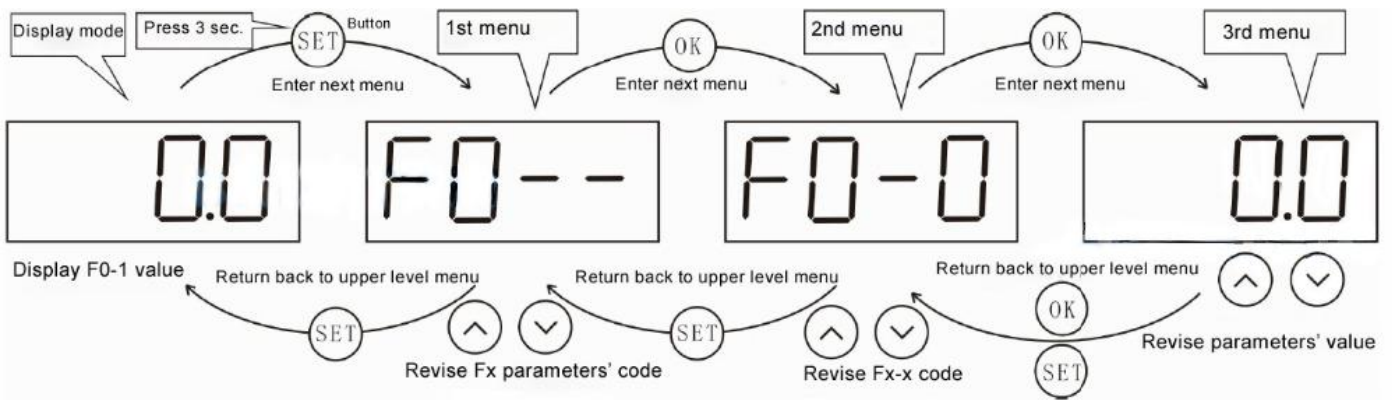
Current signal input



2-wire current sensor signal input

Terminals Description

Indicator	Description
PWR	Operating power supply (RS485 port type and standard type 6-30VDC; Relay output type: 8-30VDC.)
GND	Operating power supply GND, signal GND
Ai	Analog signal input terminal
mA	Current signal input configuration terminal, if input is current signal, user needs to do short-circuited connection between mA and Ai terminals,
RS485 port	485+ signal +, 485- signal -
Relay output	KA, KB relay normally open contact output terminal



1. F0 Parameters Value -Display parameters

Code	Parameters	Description	Default	R/W
F0-0	Data acquisition value monitoring	Monitor the percentage of current analog signal input value, range 0-100 %	--	Read only
F0-1	Display value monitor	Display value, calculated by F0-0, F0-2, F0-3, F0-4 below	--	Read only
F0-2	Display accuracy	The decimal points setting for the display value, available points value: 0-3	1	Read/write
F0-3	Min. display value	Display the 0% of the corresponding data acquisition value, range: -1999-9999	0	Read/write
F0-4	Max. display value	Display the 100% of the corresponding data acquisition value, range: -1999-9999	1000	Read/write

2. F1 Parameters Value-Analog signal configuration parameters

Code	Parameters	Description	Default	R/W
F1-0	Input type selection	0: 0-10V or 0-20mA input in corresponding to 0-100.0% 1: 2-10V or 4-20mA input in corresponding to 0-100.0% (lower than 0V or 4mA displays 0)	0	Read/write
F1-1	Input filtering time	Range: 0-10.000s, filtering time is longer, the filtering effect is better.	0.200	Read/write
F1-2	Input gain	Range: 0-1000.0%	100.0	Read/write
F1-3	Input offset	-99.9-99.9%, 10V/20mA -----100%	0.0	Read/write
F1-4	On hold	None	0	Read/write
F1-5	Parameters setting selection	0: long pressing SET button for 3s to enter parameters setting mode; 1: keep pressing SET button for 3s and pressing OK button to enter parameters setting mode.	0	Read/write

3. F2 Parameters Value- Relay output configuration (*Only for Relay output type.)

Code	Parameters	Description	Default	R/W
F2-0	Relay output state setting	The relay output status at rated conditions: 0: No controlling work, always on. 1. Closed; 2. Open (closed when it does not meet the rated conditions.)	0	Read/write
F2-1	Conditions	0: higher than the comparing value A; 1: lower than the comparing value B; 2: higher than the comparing value A, and lower than the comparing value B	0	Read/write
F2-2	Comparing value A	Range: 0-100%	50.0	Read/write
F2-3	Comparing value B	Range: 0-100%	50.0	Read/write
F2-4	Dumping area	To avoid the value is nearby the comparing value, the relay output status is not stable, user need to send dumping areas parameter. Range: 0.0%-80.0%.	5.0	Read/write

The network among display meters

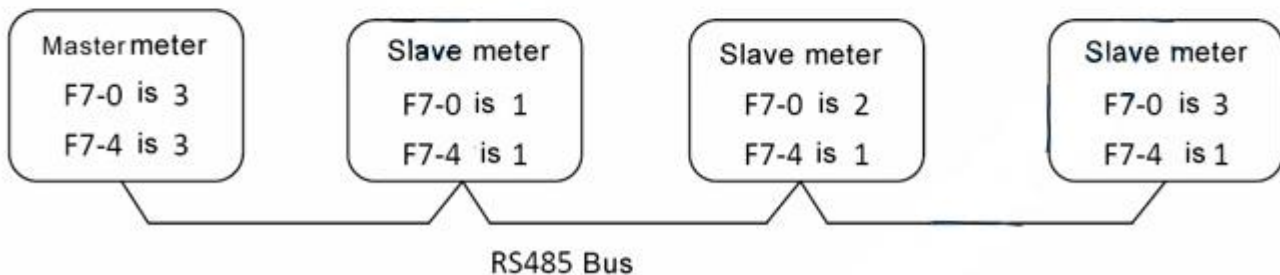
Through networking, user can send and display the data value collected by the host display meter to the slave meter. In a network, only one host display meter, and many slave display meters. In applications, user only needs to set the host display meter display range, slave meter displays value accordingly.

4-1 Broadcast networking



Main features: parameters setting is simple and fast networking; user only needs to set one parameter in all the slave meters

4-2 Address Inquiry Mode Networking



Main features: Using address inquiry mode, each slave display meter can return data. User can check if each slave display meter works normally or not through the host display meter data receiving indicator, and user needs to set parameter separately for every slave display meter.