

5 Digits RS485/RS232 Input Isolated Transmitter

GMTS

FEATURES

- Communication Protocol: MODBUS RTU
- Accuracy: $\pm 0.03\%$ F.S.
- Display value can be set by panel button, and write / read by communication
- Output resolution is up to 15 bits
- High brightness 0.4" LED display range: -199999~999999; decimal point selectable
- Surge test of AC 2000V / min between input, output and power
- High stability, non-flammable case (PC), high safety



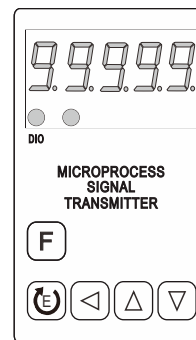
ORDER INFORMATION: GMTS - Code1 - Code2 - Code3

C1 Input Type	C2 AUX. Power	C3 Analog Output
1 RS485	A AC/DC 100~240V	N None
2 RS232	D AC/DC 22-60V	A 4~20mA
		V 0~10V
		L Loop Power 4~20mA (8~30Vdc)
		O Option

SPECIFICATION

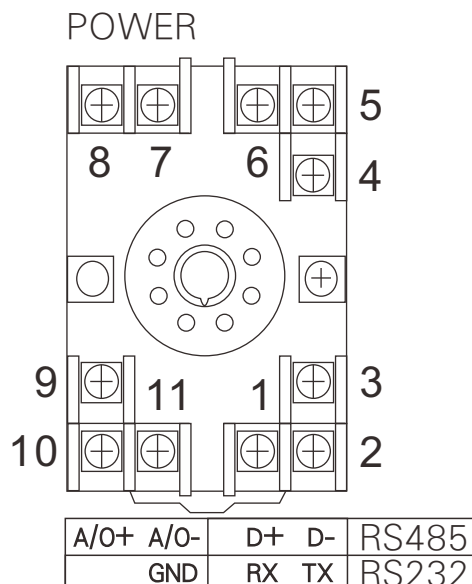
- Display Screen: High brightness red LED; 10.16mm (0.4")
- Display Range: -199999~999999
- Parameters Setting: Push buttons
- Back Up Memory: EEPROM
- Communication Protocol: Modbus RTU
- Analog Output Resolution: 15 bit
- Output Response Time: <250 msec (0~90%)
- Output Capability: Voltage Output: <20mA
Current Output: <10V
- Output Ripple: $\leq \pm 0.1\%$ F.S.
- Isolation: Input / Output / Power / Case
- Temperature Coefficient: 100ppm/°C (0~60°C)
- Operating Environment: 0~60°C; 20~90% RH (non-condensing)
- Storage Environment: -10~70°C; 20~90% RH (non-condensing)
- Power Supply: AC/DC 22~60, AC/DC 100~240
- Surge Test: 1.5 KVac/min
- Insulation Resistance: >100MΩ with 500 Vdc
- Installation: Socket / Plug in

FRONTPANEL & KEYFUNCTIONS

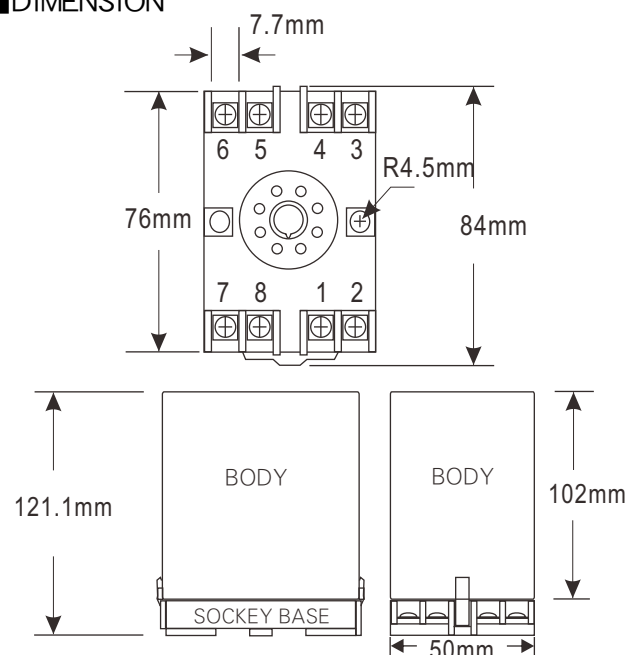


●	Communication Indicator
●	No Function
F	No Function
⏏	Enter and Save Key
⬅	Left Key
⬆	Up Key
⬇	Down and AO Setting Key

WIRING DIAGRAM:

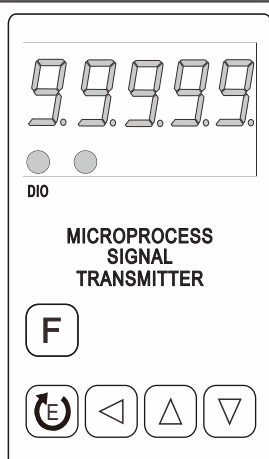


DIMENSION



★Please familiarize with the functions of the keys and indicators before operation.

Description of Panel and Key



	Communication Indicator
F	No Function
	Enter Key
	Shift Key
	Up Key
	Down key & AO Adjustment Key

Key Name	Symbol	Descriptions
Function Key	F	No function
Enter Key		In measurement status, press enter key to enter main setting page, In setting status, press enter key to save the parameter.
Shift Key		In setting status, press shift key to shift the setting digit.
Up Key		In setting status, press up key to add 1 for setting digit.
Down Key(Linear Output)		In measurement status, press down key for 3 s to enter linear output value setting, In setting status, press up key to jump to next page.
Leave Key	+	In any status, press up and down key to jump to measurement status.

Error Screen Discription

Display	Descriptions
	1. Read and Write EEPROM error or writing over times (>1 million). 2. E-00 exclusion step: a. Press Up key or Down key to choose YES. b. Press Enter key to restore the data in EEPROM.

※If the error can't be canceled, please contact and ship to seller to repair.

**1. The following block charts are parameters codes, parameter codes & parameters will alternate flashing if the parameters can be modified.

2. To modify the parameters, please press // , and press to save the parameter after the modification.

3. Please don't forget the new pass code after modification.

4. In any pages, press & , or don't press any keys for 2 minutes that will back to measuring status.

Linear Analog Output Value Setting

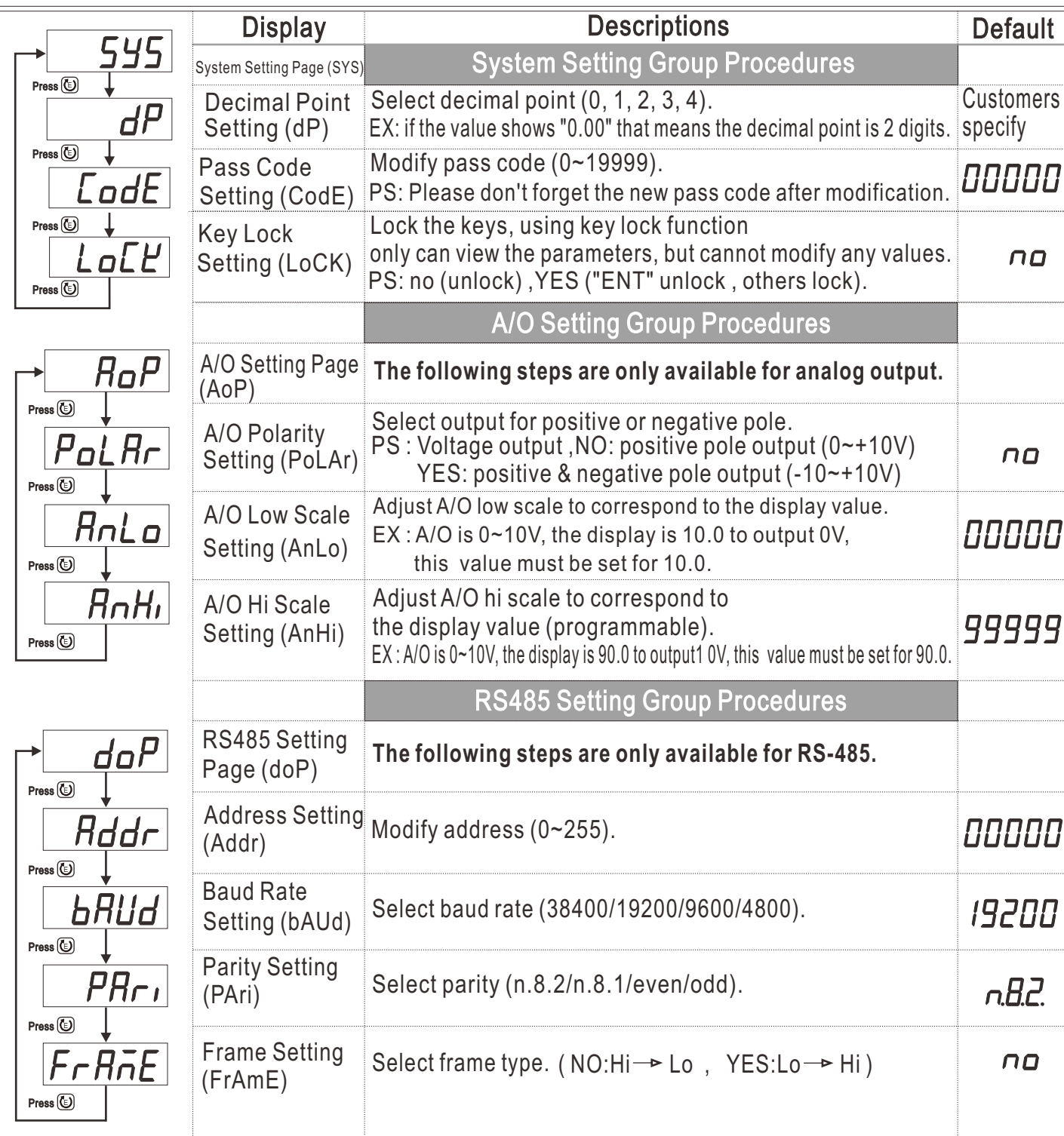
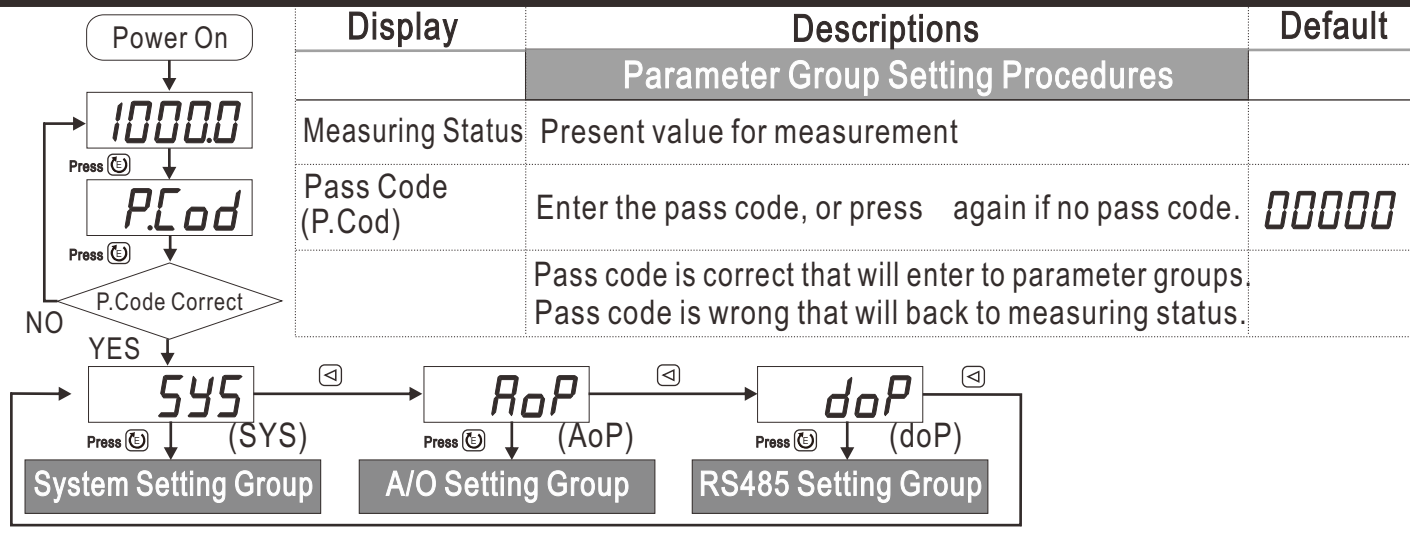
	Display	Discription	Default
		Linear Analog Output : "ZERO"&"SPAN" adjustment	
	Measuring Status	The following steps are only available for analog output.	
	A/O Zero Adjustment (AZEr0)	Modify the zero value. PS: To use this function to adjust the real A/O zero.	Optional
	A/O Span Adjustment (ASPA n)	Modify the A/O span. PS: To use this function to adjust the real A/O span.	Optional

Remark: 1. There are 3 parameter groups of "System Setting Group(SYS)", "Alarm Setting Group(roP)", "Analog Output Setting Group (AoP)", "RS485 Setting Group(doP)" for modification.

2. Press to select each group page, and press to enter each group or parameter page for modification or saving the parameters.

3. Some of optional functions of parameter pages still exist, but the functions are disable.

PROGRAMMING MODE OPERATING PROCEDURES



Modbus RTU Mode Protocol Address Table

**** Data: 16Bit / 32Bit, +/- is 8000~7FFF (-32768~32767), 80000000~7FFFFFFF (-2147483648~2147483647)**

		Name	Act	Descriptions
40001	0000	ID	R	Model number identification; GMTS is 34DH
40002	0001	FRAME	R	Frame, range: 0000~0001 (0~1); 0: No, 1: YES
40003	0002	POLAR	R/W	Analog Output Porlarity, range: 0000~0001 (0~1); 0: No, 1: YES
40004	0003	LOCK	R/W	Key Lock, range:0000~0001 (0~1); 0: No, 1: YES
40005	0004	DP	R/W	Decimal point setting, range: 0000~0004 (0~4); 0: 0 DP., 1: 1 DP. 2: 2 DP. 3: 3 DP. 4: 4DP.
40006	0005	BAUD	R/W	Baudrate, range: 0000~0003 (0~3); 0: 38400, 1: 19200, 2: 9600, 3: 4800
40007	0006	PARI	R/W	Parity, range: 0000~0003 (0~3); 0: n.8.2., 1: n.8.1., 2: EvEn, 3: odd
40008	0007	ADDR	R/W	Address, range: 0000~00FF (0~255)
40009	0008	CODE	R/W	Pass Code, range: 0000~4E1F (0~19999)
40010	0009	AZERO	R/W	Analog Output Zero Adjustment Value, range: D8F1~270F (-9999~9999)
40011	000A	ASpan	R/W	Analog Output Span Adjustment Value, range: D8F1~270F (-9999~9999)
40012	000B	ANLO	R/W	Analog Output Low Scale(MSB), range: FFFFB1E1~0001869F (-19999~99999)
40013	000C		R/W	Analog Output Low Scale(LSB), range: FFFFB1E1~0001869F (-19999~99999)
40014	000D	ANHI	R/W	Analog Output High Scale(MSB), range: FFFFB1E1~0001869F (-19999~99999)
40015	000E		R/W	Analog Output High Scale(LSB), range: FFFFB1E1~0001869F (-19999~99999)
40016	000F	DISP	R/W	Display Value(MSB), range: FFFFB1E1~0001869F (-19999~99999)
40017	0010		R/W	Display Value(LSB), range: FFFFB1E1~0001869F (-19999~99999)