

5 DIGITAL MICRO-PROCESS COUNTER (24x48mm) with 1 ALARM

AM5S-C

FEATURES

- High brightness 0.4" LED display: -19999~99999
- Max. input frequency: 7KHz (1U2D / 1P2D); 3KHz (1A2B)
- Input pulse for pre-multiplication & pre-division
- N / R / C relay output mode selectable
- 1 alarm setting (Hi or Lo) programmable
- Reset count by compound key (Shift + Up)
- High stability, non-flammable case (PC), high safety
- CE approval



ORDER INFORMATION: AM5S-C - Code 1 - Code 2 - Code 3

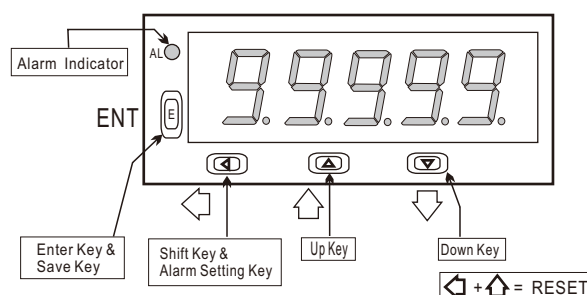
Code 1	Input Signal	Code 1	Input Signal	Code 2	Aux. Power	Code 3	Alarm Output
N5	NPN(5V)	VC	Pick-up 50mV~1.5V	A	AC/DC 100~240V	N	None
N2	NPN(12V)	VD	Pick-up 500mV~15V	D	AC/DC 22~60V	R1	1 Relay
P5	PNP(5V)	VE	DC 24Vp				
P2	PNP(12V)	CT	Contact				
		0	Option				

**1: NPN(5V), PNP(5V) offers excitation power DC5V; NPN(12V), PNP(12V) offers excitation power DC12V for sensors using.
2: Please use PNP/NPN(5V/12V) or DC24Vp for DC pulse input.

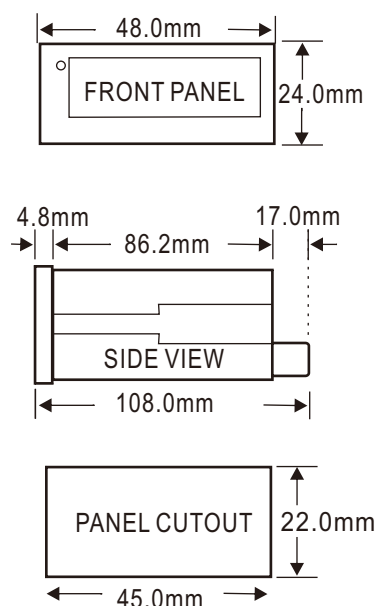
SPECIFICATION

- ◆ Display Screen: High brightness red LED; 10.16mm(0.4")
- ◆ Max. Input Frequency: 7KHz (1U2D / 1P2D)
3KHz (1A2B)
- ◆ Display Range: -19999~99999
- ◆ Parameters Setting: Push buttons
- ◆ Back Up Memory: EEPROM
- ◆ Alarm Action: "≥ (Hi) on" or "< (Lo) on"
- ◆ Relay Contact: AC 277V / 7A; DC 30V / 7A
- ◆ Relay Output Mode: N / R / C (depends on 1st alarm setpoint)
- ◆ Alarm Run Time: 1~99 sec
- ◆ Temperature Coefficient: 100ppm / °C (0~60°C)
- ◆ Operating Temperature: 0~60°C
- ◆ Operating Humidity: 20~90% RH (non-condensing)
- ◆ Storage Temperature: -10~70°C
- ◆ Storage Humidity: 20~90% RH (non-condensing)
- ◆ Power Supply: AC/DC 100~240V; AC/DC 22~60V
- ◆ Power Consumption: 8.5VA (all functions output)
- ◆ Surge Test: 1.5KVac / 1min (Input / Power)

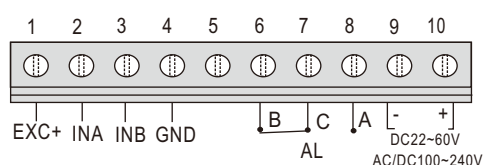
FRONT PANEL & KEY FUNCTIONS



DIMENSION

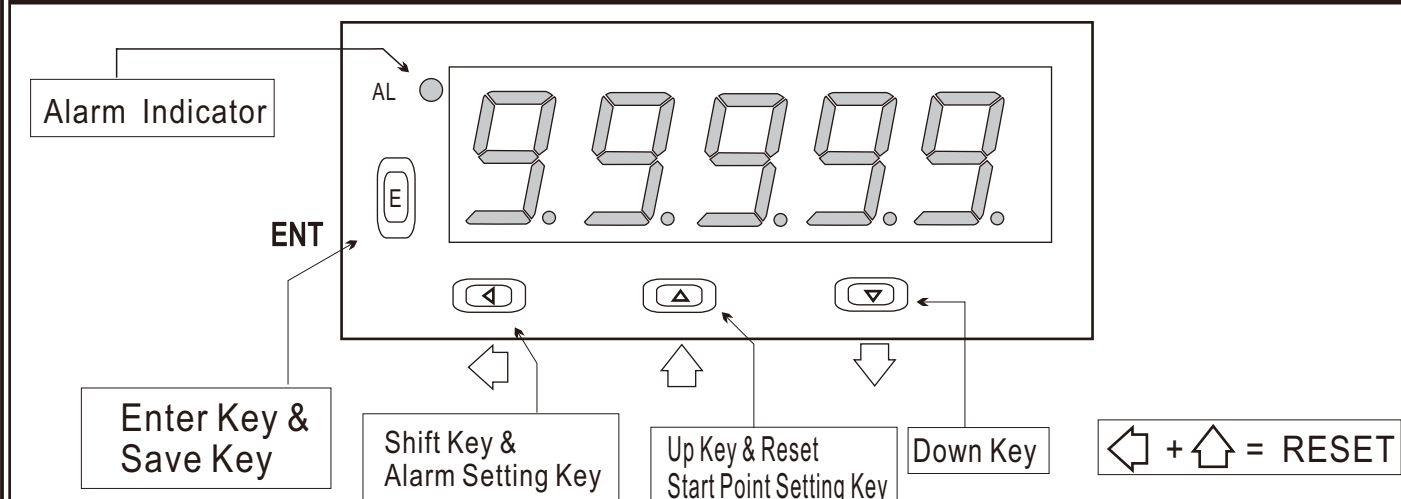


WIRING CONNECTION



* Please understand key indicators & functions at the first operation.

FRONT PANEL & KEY FUNCTIONS



Key Name	Symbol	Descriptions
Enter Key & Save Key	ENT	1. In the measuring status, press this key can enter to parameter pages. 2. In the parameter setting, press this key can save the value & go to next parameter.
Shift Key & Alarm Setting Key	←	1. In the measuring status, press this key for 3 sec can enter to alarm setting page. (The selecting digit will be flashed) 2. In the parameter setting, press this key can move the cursor left.
Up Key & Reset Start Point Setting Key	↑	1. In the measuring status, press this key for 3 sec can enter to reset start point setting adjustment. 2. In the parameter setting, press this key can increase the digits.
Down Key	↓	1. In the parameter setting, press this key can decrease the digits.

- **1. The following block charts are parameters codes, parameter codes & parameters will alternate flashing if the parameters can be modified.
- To modify the parameters, please press ← ↑ ↓, and press **ENT** to save the parameters after the modification.
 - Please don't forget the new pass code after modification.
 - In any pages, press ↑ & ↓, or don't press any keys for 2 minutes that will back to measuring status.
 - In the measuring status, press ← & ↑ can reset the digits.

GENERAL MODE OPERATING PROCEDURES

Block Charts	Display	Descriptions	Default
Power On		Alarm Setpoint	
Measuring Status	10000	Present value for measurement.	
Alarm Setpoint (AL)	AL	Press ← ↑ ↓ to modify alarm setpoint.	00000
Reset Start Point		Reset Start Point	
Measuring Status	10000	Present value for measurement.	
Reset Start Point Setting(rSt)	rSt	Press ← ↑ ↓ to modify reset start point.	00000

PROGRAMMING MODE OPERATING PROCEDURES

Block Charts	Display	Descriptions	Default
Power ON ↓ 10000 Press ENT ↓ P.Cod Press ENT ↓ P.Code Correct YES ↓ SYS Press ENT ↓ dP Press ENT ↓ tYPE Press ENT ↓ ACCU Press ENT ↓ SCALE Press ENT ↓ d iv Press ENT ↓ CodE Press ENT ↓ LoCK Press ENT ↓ roP Press ENT ↓ ACt Press ENT ↓ oP.modE Press ENT ↓ oP.tiME Press ENT	Measuring Status Pass Code (P.Cod) System Setting Page (SYS) Decimal Point Setting (dP) Input Type Setting (tYPE) 1A2B Accurate Setting (ACCU) Scale Coefficient Adjustment (SCALE) Pre-Division Setting (div) Pass Code Setting (CodE) Key Lock Setting (LoCK) Alarm Setting Page (roP) Alarm Action Setting (ACt) Alarm Mode Setting (oP.ModE) Alarm Run Time Setting (oP.tiME)	Present value for measurement. Press ◀▶ to enter pass code. Pass code is correct that will enter to parameter groups. Pass code is wrong that will back to measuring status. Press ◀ to select system setting group (SYS) or alarm setting group (roP). Press ◀▶ to select decimal point (0, 1, 2, 3, 4) EX: if the value shows "0.00" that means the decimal point is 2 digits. Press ◀▶ to modify the input type. (1U2D/1P2D/1A2B) Press ◀▶ to modify 1A2B accurate (X1, X4). Press ◀▶ to modify scale coefficient (0.001 ~99.999). Press ◀▶ to modify pre-division (1~999999). Press ◀▶ to modify pass code (0~99999). PS: Please don't forget the new pass code after modification. Press ◀▶ to lock the keys, using key lock function only can view the parameters, but cannot modify any values.PS: no (unlock) ,YES ("ENT" unlock , others lock).	 00000 Customers specify Customers specify 1.0000 00001 00000 no Alarm Setting Group Procedures The following steps are not available for alarm output. Hi 00000 00000

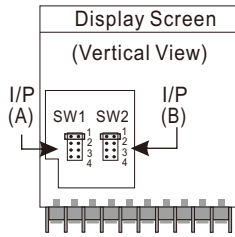
Error Code of Self-Diagnosis

Display	Descriptions	Remark
E-00	EEPROM reading/writing suffers the interference (about 1 million times)	**Please check the wiring connection is correct first, if the problem still exist, please return the meter to the factory.

**Relay Output Mode Descriptions:

- N: (Manual); the relay is on when the present value reaches the alarm setpoint, the present value is still counted and the relay don't deactivate until manual reset by "reset key" or "external control terminal". Then the present value is reset to zero.
- R: (Return); the relay is on when the present value reaches the alarm setpoint, the present value is counted until the relay output time is terminated. Then the present value is reset to zero.
- C: (Continue); the relay is on when the present value reaches the alarm setpoint, the present value is reset to zero. And the relay is still on until the relay output time is terminated.

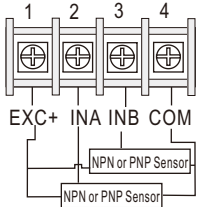
Input Signal Modification



****To Select the pin to modify the input signal for different sensors.**
PS: In dual input type, excitation power must be the same.

SW1/SW2	JUMPER	DEFINITION
1	1	Open: 12V; Close: 5V
2	2	Open: 10KHz; Close: 400Hz
3	3	Open: NPN; Close: PNP
4	4	Open: PNP; Close: NPN

****Connection:**



NPN (5V): 0~400 Hz

JUMPER	SW1/SW2
1	1
2	2
3	3
4	4

NPN (5V): 0~10 KHz

JUMPER	SW1/SW2
1	1
2	2
3	3
4	4

NPN (12V): 0~400 Hz

JUMPER	SW1/SW2
1	1
2	2
3	3
4	4

NPN (12V): 0~10 KHz

JUMPER	SW1/SW2
1	1
2	2
3	3
4	4

PNP (5V): 0~400 Hz

JUMPER	SW1/SW2
1	1
2	2
3	3
4	4

PNP (5V): 0~10 KHz

JUMPER	SW1/SW2
1	1
2	2
3	3
4	4

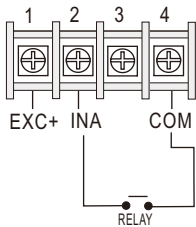
PNP (12V): 0~400 Hz

JUMPER	SW1/SW2
1	1
2	2
3	3
4	4

PNP (12V): 0~10 KHz

JUMPER	SW1/SW2
1	1
2	2
3	3
4	4

****Connection:**



Relay Contact: NPN 0~400 Hz

JUMPER	SW1/SW2
1	1
2	2
3	3
4	4

****For relay input type, please select NPN 0~ 400 Hz.**