

Multiple Output Signal Digital Panel Meter

Model: NAC5

Product Description

- Can be used as a pressure relay, which can transmit up to four sets
- Can be used to display gas pressure, oil pressure, water pressure or liquid level
- Offers three functions used together or separately as needed: one- to four-stage alarms, 16-bit resolution analog transmission, and/or RS485 digital communication interface



Product Specification

Accuracy

±0.1% F.S. ±1 digit
(DC/Potentiometer/Resistor/PT-100/
Load Cell)
±0.2% F.S. ±1 digit (AC)

Display screen

High brightness red LED
20.5 mm (0.8")

Sampling time

60 cycles/sec

Polarity indication

Automatic with " - " indication

Display range

-19999 ... 99999

Display over range indication

doFL/-doFL

Input over range indication

ioFL/-ioFL

Parameters indication

Push buttons

Back up memory

EEPROM

Relay contact

AC 250V/5A
DC 30V/7A

Analog output resolution

16 bit

Product Specification

Output communication

Current output: $\leq 10V$

Voltage output: $\leq 20mA$

Communication

RS485 Modbus RTU mode

Baud rate

19200/9600/4800/2400 bps

Tempering temperature

100 ppm/°C (0°C ... 60°C)

Ambient temperature& humidity

00°C ... 60°C/20% ... 90% RH

(non-condensing)

Power supply

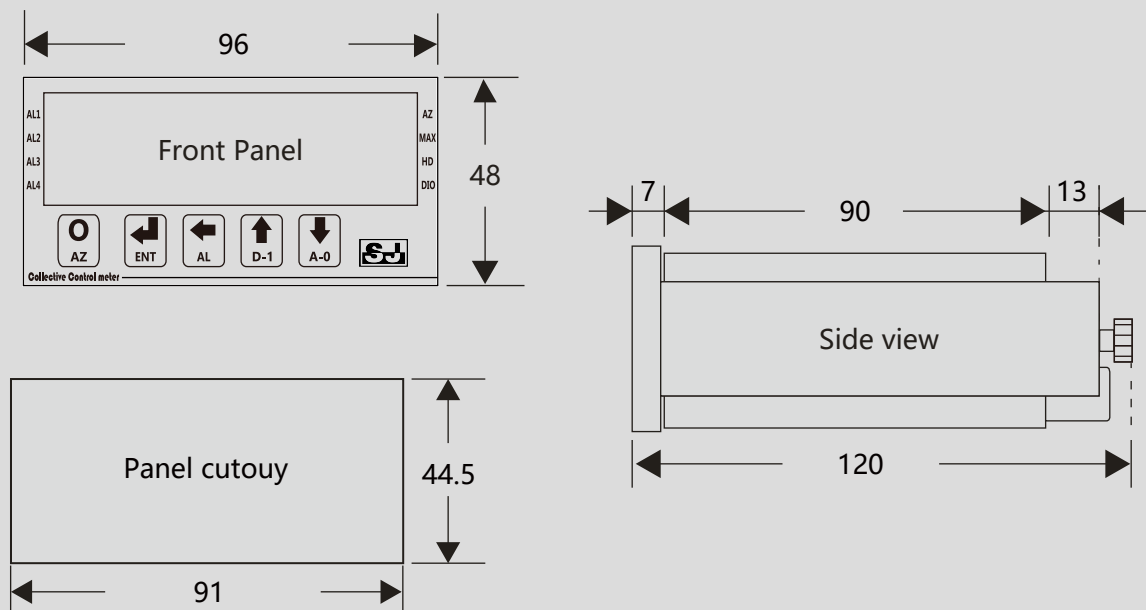
AC/DC 100V ... 240V

AC/DC 22V ... 50V

Power consumption

< 6.5VA

Dimensions



Unit: mm

Order information

NAC5 Multiple Output Signal Digital Panel Meter ordering information chapter		
Ordering information	Code	Product Specification
1		Input Type
	2	2, 3Wire sensor
	4	4Wire sensor
	D	DC
	A	AC AVG
	I	2Wire resistor
	L	Load call
	M	AC TRMS
	P	3Wire potentiometer
		Compound Input
	S01	0~10Vdc/0~5Vdc 、 4~20mAdc/0~20mAdc
	S02	0~500Vac/0~50Vac 、 0~5Aac/0~1Aac
	S03	0~500Vdc/0~50Vdc 、 0~100mVdc/0~50mVdc
	S04	PT100/Thermocouple
2		Voltage (V)
	V1	0~50mV
	V2	0~5V
	V3	1~5V
	V4	0~10V
	V5	0~30V
	V6	0~300V
	V7	0~500V
	VO	Option
		Current (A)
	A1	0~20uA
	A2	0~200uA
	A3	0~2mA
	A4	0~20mA
	A5	0~200mA
	A6	4~20mA
	A7	0~2A
	A8	0~5A
	A9	0~10A
	AO	Option
		Potentiometer
	P1	500Ω~10KΩ
	P2	10KΩ~100KΩ
	P3	100KΩ~1MΩ
	PO	Option
		Resistor
	I1	0~10Ω
	I2	0~100Ω
	I3	0~1KΩ

NAC5 Multiple Output Signal Digital Panel Meter ordering information chapter		
Ordering information	Code	Product Specification
		Resistor
	I4	0~10KΩ
	I5	0~100KΩ
	IO	Option
		Thermometer
	PT	PT100 (-200~800°C)
	K	K TYPE (-200~1300°C)
		Load cell
	L1	1mV/V.EX5V
	L2	2mV/V.EX5V
	L3	3mV/V.EX5V
	L4	4mV/V.EX5V
	L5	5mV/V.EX5V
	LO	options
3		Power supply
	A	AC/DC 100~240V
	C	DC 22~50V
	D	Option
4		Output
	N	None
	R1	1 Relay
	R2	2 Relay
	R3	3 Relay
	R4	4 Relay
	O1	1 Open collect
	O2	2 Open collect
	O3	3 Open collect
5		Analog output
	N	None
	A	4-20mA
	V	0-10V
	Y	RS-485
	O	Option
6		RS-485 Output
	N	None
	Y	Yes

Order code:

	1	2	3	4
NAC5	—			

For any changes to the specifications of this catalogue, the latest version shall prevail.



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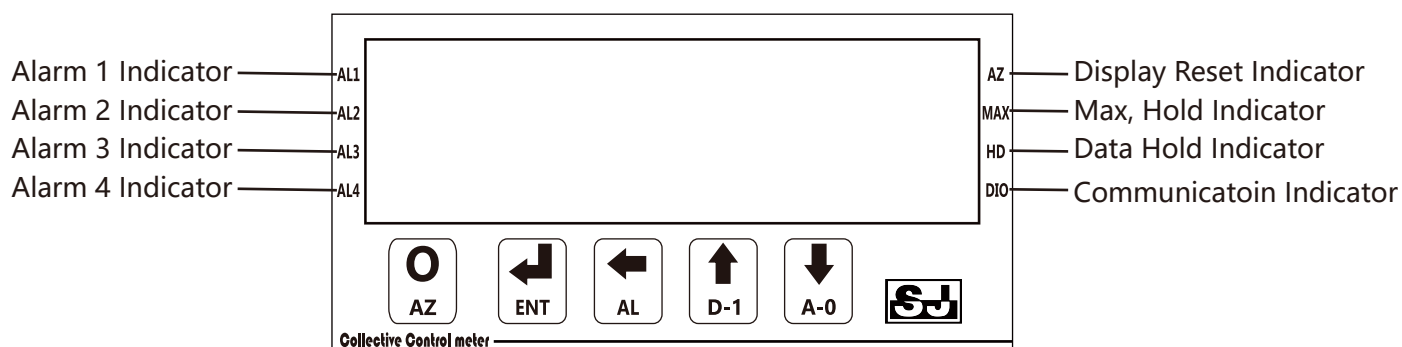
info@sinjiagauge.com

www.sj-gauge.com

No.3, Ln. 71, Chifeng St., Datong Dist., Taipei City 103017, Taiwan



Key Functions



Key Functions

AZ	Function key	Enable the setting function for measuring status
ENT	Enter key & save key	Enter to parameter groups for measuring status; Save the value for parameter setting
←	Shift key & Alarm setting key	Hold for 3 sec. enter to alarm setpoint modification for measuring status; Enter to parameter page; Move the cursor left for parameter setting
↑	Up key & display setting key	Hold for 3 sec. enter to display group setting for measuring status; Back to the last parameter page; Increase the digit for parameter setting
↓	Down key & A/O setting key	Hold for 3 sec. enter to A/O group setting for measuring status; Go to the next parameter page; Decrease the digit for parameter setting
↑↓	In any status can back to measuring status	

Error Code of Self-diagnosis

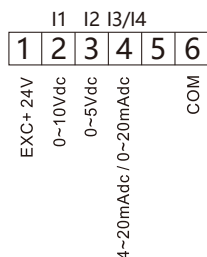
Display	Descriptions
10FL	Input signal is over 120% of input range.
-10FL	Input signal is lower than the input range -10%
AdEr	The input signal is 180% above the rating; or the internal line is damaged
doFL	Input signal is over display range(99999)
-doFL	Input signal is lower than the maximum display range(-19999)
E-00	EEPROM reading/writing suffers the interference (about 1 million times).



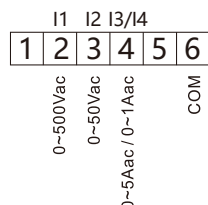
Wiring Connection

Compound Input (S01, S02, S03, S04)

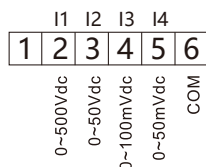
S01 Input



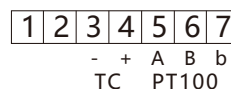
S02 Input



S03 Input

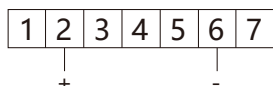


S04 Input

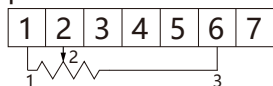


Input Function

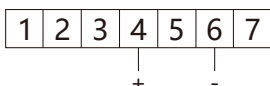
Voltage(V)(AC,DC)



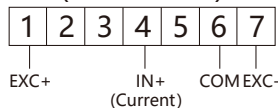
3Wire
potentionmeter



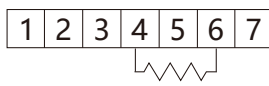
Current(A)(AC,DC)



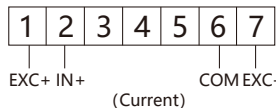
4Wire sensor
(Transmitter)



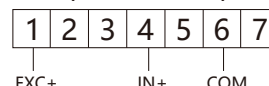
2Wire resistor



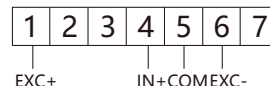
4Wire sensor
(Transmitter)



2, 3Wire sensor
(Transmitter)

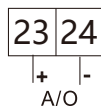


Load cell

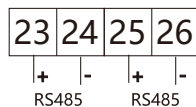


Output Function

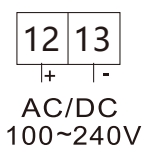
Analog Output



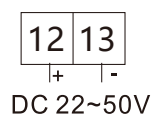
RS485 Output



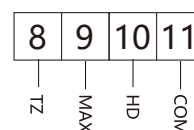
AC Power



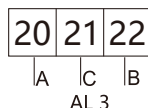
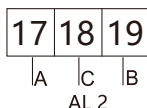
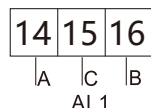
DC Power



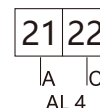
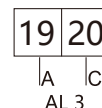
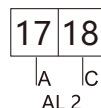
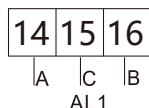
External control
funtion



Relay*1~3 Output



Relay*4 Output





Operation Process and Display

Push-button name indication

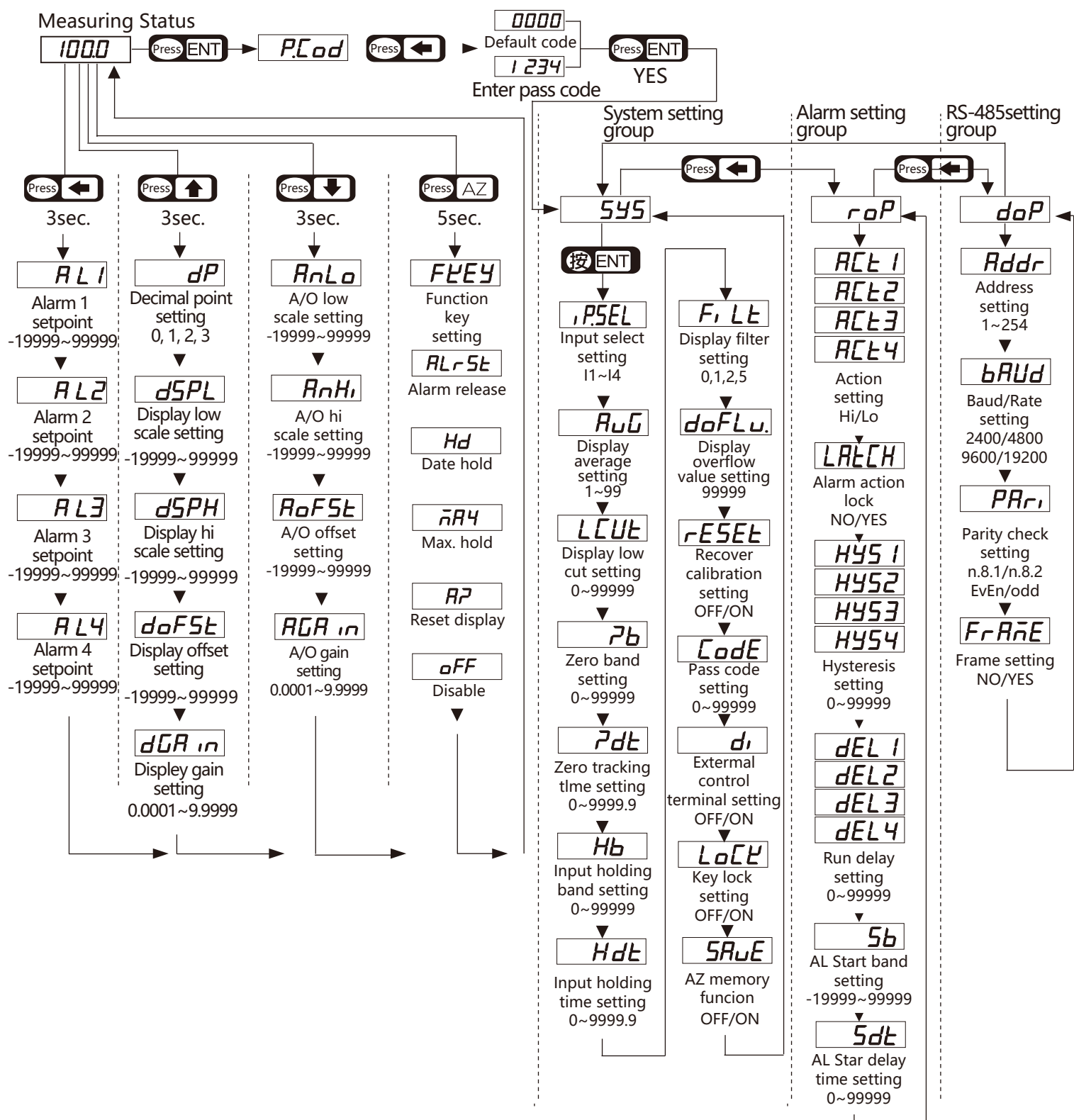
ENT
Enter/Save

Shift

Up

Down

Home + Down





Modbus RTU Mode Protocol Address Map

※Date Form: 16/32 Bit, +/- 8000~7FFF (-32768~32767), 80000000~7FFFFFFF (-2147483648~2147483647)

Modbus	Hex	Name	Act	Discriptions
40001	0000	DISPLAY	R	Current display range: B1E1~7FFF(-19999~32767)
40002	0001	STATUS	R	Current alarm output & external control input status, range: 0000~00FE(0~0254) Bit0=AZ, Bit1=HDMAX, Bit2=HOLD Bit4=AL1, Bit5=AL2, Bit6=AL3, Bit7=AL4
40004	0003	DP	R/W	Decimal point setting; range: 0000~000(0~4)0:10 ⁰ , 1:10 ⁻¹ , 2:10 ⁻² , 3:10 ⁻³ , 4:10 ⁻⁴
40005	0004	BAUB	R/W	Baud rate setting; range: 0000~0003(0~3)0: 2400, 1: 4800, 2: 9600, 3: 19200
40006	0005	PARI	R/W	Parity setting; range: 0000~0003(0~3)0:N.8.1, 1:N.8.2, 2:EVEN, 3:ODD
40007	0006	DISPLAY	R	Current display range: B1E1~7FFF(-19999~32767)
40009	0008	ADDR	R/W	Address setting; range: 0000~00FF(1~254)
40013	000C	ACT1	R/W	Alarm 1 direction of action; range: 0000~0001(0~1); 0: Hi, 1: Lo
40014	000D	ACT2	R/W	Alarm 2 direction of action; range: 0000~0001(0~1); 0: Hi, 1: Lo
40015	000E	ACT3	R/W	Alarm 3 direction of action; range: 0000~0001(0~1); 0: Hi, 1: Lo
40016	0013	ACT4	R/W	Alarm 4 direction of action; range: 0000~0001(0~1); 0: Hi, 1: Lo
40019	0012	CODE	R/W	Pass code setting; range: 0000~0001869F(0~99999)Hi bit
40020	000F		R/W	Pass code setting; range: 0000~270F(0~99999)Low bit
40021	0014	DSPL	R/W	Display low scale setting; range: FFFFB1E1~0001869F(-19999~99999)Hi bit
40022	0015		R/W	Display low scale setting; range: FFFFB1E1~0001869F(-19999~99999)Low bit
40023	0016	DSPH	R/W	Display hi scale setting; range: FFFFB1E1~0001869F(-19999~99999)Hi bit
40024	0017		R/W	Display hi scale setting; range: FFFFB1E1~0001869F(-19999~99999)Low bit
40026	0019	DISPLAY	R/W	Current display; range: FFFFB1E1~0001869F(-19999~99999)Hi bit
40027	001A		R/W	Current display; range: FFFFB1E1~0001869F(-19999~99999)Low bit
40031	001E	DISPLAY	R/W	Current display; range: FFFFB1E1~0001869F(-19999~99999)Hi bit
40032	001F		R/W	Current display; range: FFFFB1E1~0001869F(-19999~99999)Low bit
40039	0026	DISPLAY	R/W	Current display; range: FFFFB1E1~0001869F(-19999~99999)Hi bit
40040	0027		R/W	Current display; range: FFFFB1E1~0001869F(-19999~99999)Low bit
40059	003A	AL1	R/W	Alarm 1, range: FFFFB1E1~0001869F(-19999~99999)Hi bit
40060	003B		R/W	Alarm 1, range: FFFFB1E1~0001869F(-19999~99999)Low bit
40061	003C	AL2	R/W	Alarm 2, range: FFFFB1E1~0001869F(-19999~99999)Hi bit
40062	003D		R/W	Alarm 2, range: FFFFB1E1~0001869F(-19999~99999)Low bit
40063	003E	AL3	R/W	Alarm 3, range: FFFFB1E1~0001869F(-19999~99999)Hi bit
40064	003F		R/W	Alarm 3, range: FFFFB1E1~0001869F(-19999~99999)Low bit
40065	0040	AL4	R/W	Alarm 4, range: FFFFB1E1~0001869F(-19999~99999)Hi bit
40066	0041		R/W	Alarm 4, range: FFFFB1E1~0001869F(-19999~99999)Low bit