

19" RACK MICRO-PROCESS CONTROL CARD with 1~4 ALARMS / ANALOG OUTPUT / RS-485

GA19

FEATURES

- Accuracy: $\pm 0.1\%$ F.S. ± 1 digit (DC / Potentiometer / Resistor / PT-100 / Load Cell)
 $\pm 0.2\%$ F.S. ± 1 digit (AC)
- High brightness dual LED display range: -199999~999999
- 8 pcs control cards in 1 rack available
- Baud rate up to 38400 bps; sampling time up to 60 cycles / sec
- Restore factory calibration setting available
- Buzzer / Root square / Analog output simulation function available
- Max. Hold / Data Hold / Reset / 1~4 Alarms (Hi or Lo) programmable / Analog output (15 bit resolution) / RS-485 communication optional (The above options can exist together)
- CE approval



ORDER INFORMATION: GA19 - [Code 1] [Code 2] - [Code 3] - [Code 4] [Code 5] [Code 6]

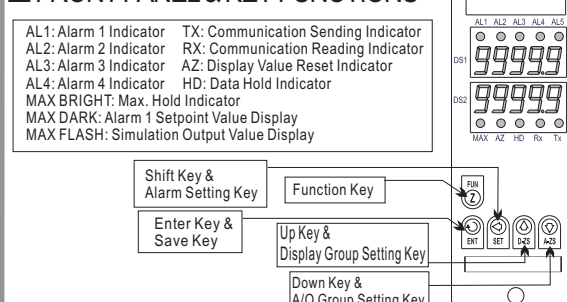
Code 1	Input Type	Code 2	Voltage	Code 2	Current	Code 2	Potentiometer	Code 2	Resistor	Code 2	RTD (PT-100)	Code 2	Load Cell	Code 3	Aux. Power	Code 5	Analog Output
D	DC	V1	0~50mV	A1	0~20uA	P1	500 Ω ~10K Ω	I1	0~10 Ω	T1	-50~50 $^{\circ}$ C	L1	1mV/V EX.5V	A	AC/DC100~240V	N	None
A	AC AVG	V2	0~5V	A2	0~200uA	P2	10K Ω ~100K Ω	I2	0~100 Ω	T2	-100~100 $^{\circ}$ C	L2	2mV/V EX.5V	B	DC 12V	A	4~20mA
M	AC TRMS	V3	1~5V	A3	0~2mA	P3	100K Ω ~1M Ω	I3	0~1K Ω	T3	-200~200 $^{\circ}$ C	L3	3mV/V EX.5V	C	DC 24V	V	0~10V
P	3 Wire Potentiometer	V4	0~10V	A4	0~20mA	PO	Option	I4	0~10K Ω	T4	0~600 $^{\circ}$ C	L4	1mV/V EX.10V	D	DC 30~90V	O	Option
I	2 Wire Resistor	V5	0~36V	A5	0~200mA			I5	0~100K Ω	TO	Option	L5	2mV/V EX.10V				
T	RTD (PT-100)	V6	0~300V	A6	4~20mA			IO	Option			L6	3mV/V EX.10V				
L	Load Cell	V7	0~600V	A7	0~2A							LO	Option				
2	2, 3 Wire Sensor	V0	Option	A0	Option												
4	4 Wire Sensor																

- *1: 2 wire type offers excitation power DC24V for 2 wire (Loop Power) pressure, temperature, humidity sensors using.
2: Please specify the input signal and display value, inquiry salespersons for special type.
3: Load Cell type of excitation power DC5V can have 2 load cell in parallel; DC10V only can offer 1 load cell to use.
4: 3 Relay type only offers A(Normal/Open) output. O.C. (Open Collect) offers NPN of C.E. output.

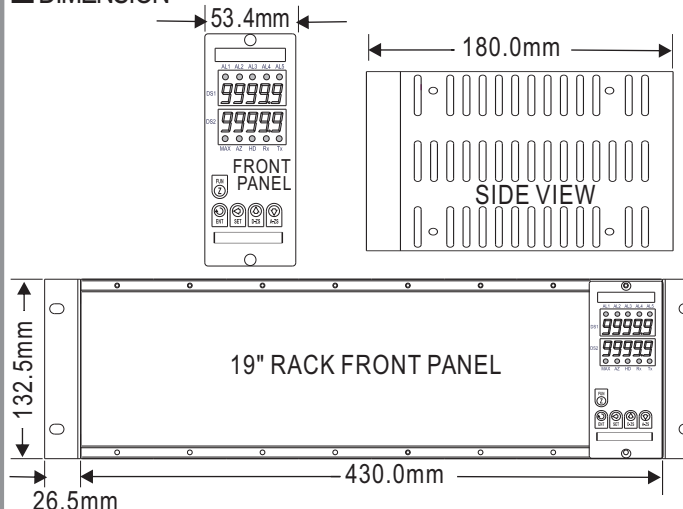
SPECIFICATION

- ◆ Accuracy: $\pm 0.1\%$ F.S. ± 1 digit (DC / Potentiometer / Resistor / PT-100 / Load Cell)
 $\pm 0.2\%$ F.S. ± 1 digit (AC)
- ◆ Display Screen: High brightness red LED;
- ◆ Sampling Time: 60 cycles / sec
- ◆ Display Range: -199999~999999
- ◆ Zero Adjustment: -199999~999999
- ◆ Over Range Indication: doFL / ioFL or -doFL / -ioFL
- ◆ Polarity Indication: Automatic with "-" indication
- ◆ Parameters Setting: Push buttons
- ◆ Back Up Memory: EEPROM
- ◆ Alarm Action: " $\geq$ (Hi) on" or "< (Lo) on"
- ◆ Alarm Run Delay Time: 0~99 sec
- ◆ Relay Contact: AC 277V / 7A; DC 30V / 7A
- ◆ Analog Output Resolution: 15 bit
- ◆ Output Response Time: <250 msec (0~90%)
- ◆ Output Capability: Voltage Output: <20mA
Current Output: <10V
- ◆ Communication: RS-485 Modbus RTU mode
- ◆ Baud Rate: 38400 / 19200 / 9600 / 4800 bps
- ◆ Temperature Coefficient: 100ppm / $^{\circ}$ C (0~60 $^{\circ}$ C)
- ◆ Operating Temperature: 0~60 $^{\circ}$ C
- ◆ Operating Humidity: 20~90% RH (non-condensing)
- ◆ Storage Temperature: -10~70 $^{\circ}$ C
- ◆ Storage Humidity: 20~90% RH (non-condensing)
- ◆ Power Supply: AC/DC 100~240V; DC 12 / 24 / 30~90V
- ◆ Power Consumption: 8.5VA (all functions output)
- ◆ Surge Test: 1.5KVac / 1min (Input / Power)
- ◆ Input Impedence: Voltage: >2V for 20K Ω / V; $\leq$ 2V for >200M Ω
Current: $\geq$ 0.2A at 100mV; <0.2A at 1V

FRONT PANEL & KEY FUNCTIONS

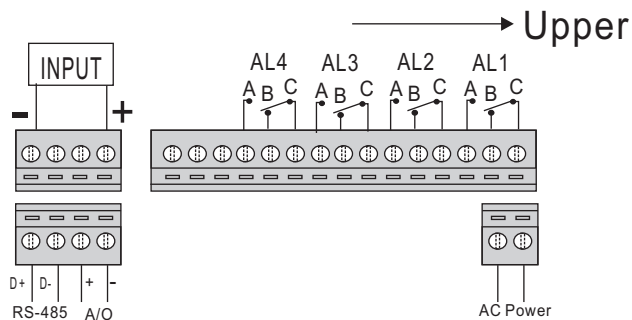


DIMENSION

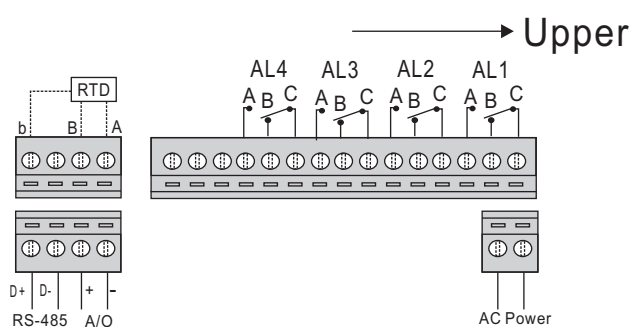


■ WIRING CONNECTION

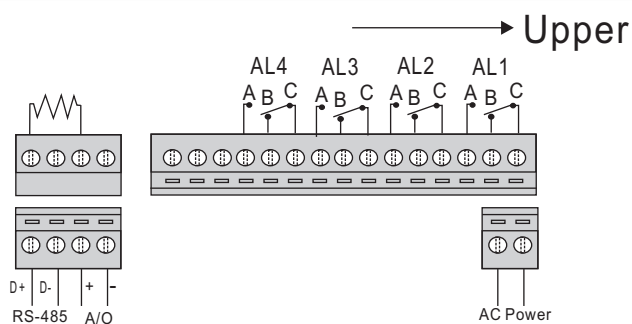
● Voltage, Current (AC, DC)



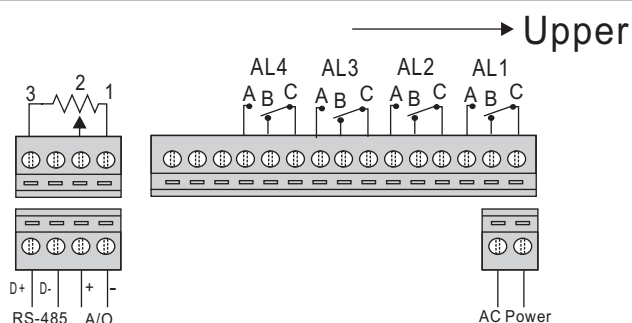
● Temperature (RTD)



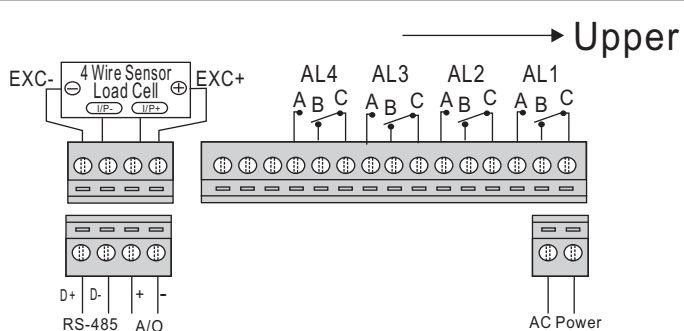
● 2 Wire Resistor



● 3 Wire Potentiometer



● 4 Wire Sensor or Load cell



● 2,3 Wire Sensor

