

LARGE DISPLAY FOR

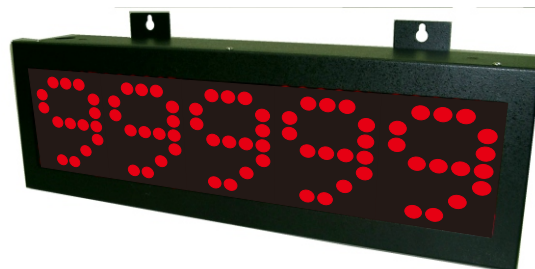
ROTATING SPEED
LINE SPEED
FREQUENCY

OF PULSE SIGNAL

GBMR

FEATURES

- Accuracy: $\pm 0.03\%$ F.S $\pm$
- Support max frequency of 10KHZ, Support any type pulse signal.
- Dual pulse input for 3 types measurements, Individual Display, Computation, Encoder Mode.
- High brightness LED display range: -19999~99999.
- Parameters setting by infrared remote control.
- Baud rate up to 19200 bps; sampling time up to 60 cycles / sec.
- Reset / 1~4 Alarms (Hi or Lo) programmable / Analog output (15 bit resolution) / RS-485 communication optional (The above options can exist together).
- Invisible wire connection, easily installation.



ORDER INFORMATION: GBMR - [Code 1] - [Code 2] [Code 3] - [Code 4] - [Code 5] [Code 6] [Code 7]

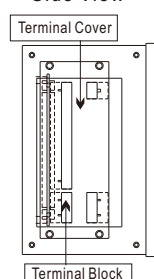
Code 1	Digits	Code 2	Input Type	Code 3	Unit Type	Code 4	Aux. Power	Code 5	Alarm Output	Code 6	Analog Output	Code 7	RS-485
3	3 Digits	N5	NPN5V	H	Hz	A	AC/DC100~240V	N	None	N	None	N	None
4	4 Digits	N2	NPN12V	R	RPM	D	AC/DC22~36V	R2	2 Relays	A	4~20mA	Y	Yes
5	5 Digits	P5	PNP5V	M	M/min			R3	3 Relays	V	0~10V		
0	Option	P2	PNP12V	Y	Y/min			R4	4 Relays	O	Option		
		CT	Contact	F	F/min			O2	2 Open Collect				
		VA	AC 2~60V					O3	3 Open Collect				
		VB	AC 60~600V					O4	4 Open Collect				
		VC	Pick-up 50mV~1.5V										
		VD	Pick-up 500mV~15V										
		VE	DC 24Vp										
		0	Option										

SPECIFICATION

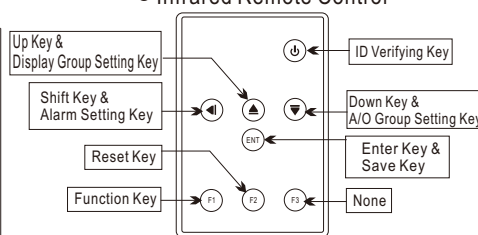
- ◆ Accuracy: $\pm$ $\pm 0.03\%$ F.S
- ◆ Display Screen: High brightness red LED; 10cm (4")
- ◆ Max Frequency: 10 KHz
- ◆ Display Range: -199999~999999
- ◆ Zero Adjustment: -199999~999999
- ◆ Over Range Indication: do / io or -do / -io
- ◆ Polarity Indication: Automatic with "-" indication
- ◆ Parameters Setting: Infrared Remote Control
- ◆ 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: 19200 / 9600 / 4800 / 2400 bps
- ◆ Temperature Coefficient: 100ppm / $^{\circ}\text{C}$ (0~60 $^{\circ}\text{C}$)
- ◆ Operating Temperature: 0~60 $^{\circ}\text{C}$
- ◆ Operating Humidity: 20~90% RH (non-condensing)
- ◆ Storage Temperature: -10~70 $^{\circ}\text{C}$
- ◆ Storage Humidity: 20~90% RH (non-condensing)
- ◆ Power Supply: AC/DC 100~240V; AC/DC 22~36V
- ◆ Power Consumption: 8.5VA (all functions output)
- ◆ Surge Test: 1.5KVac / 1min (Input / Power)
- ◆ Input Impedence: Voltage: >2V for 20K Ω / V; $\leq 2\text{V}$ for >200M Ω
Current: $\geq 0.2\text{A}$ at 100mV; <0.2A at 1V

SIDE PANEL & KEY FUNCTIONS

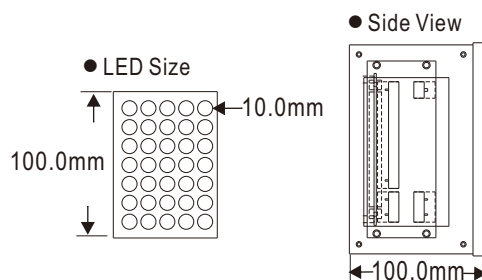
Side View



Infrared Remote Control

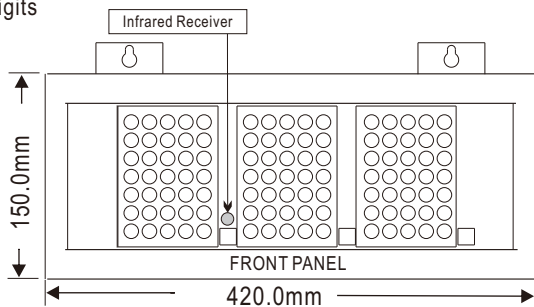


SIDE & LED DIMENSION

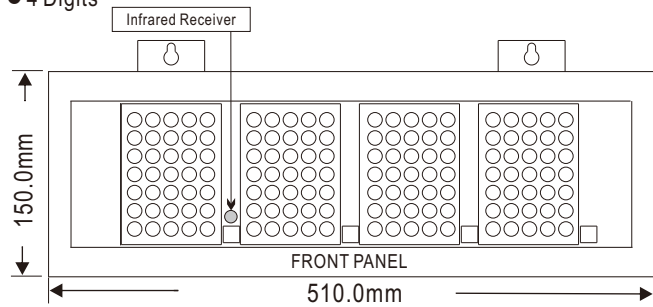


DIMENSIONS

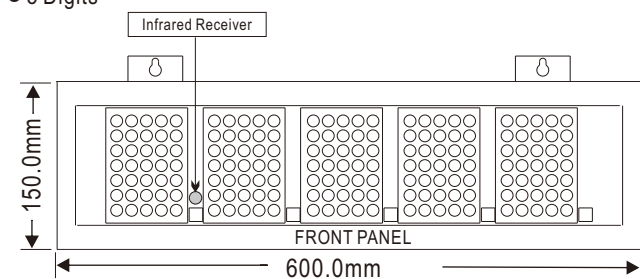
3 Digits



4 Digits

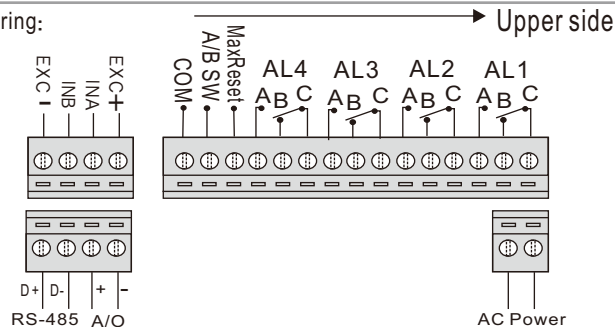


5 Digits



WIRING CONNECTION

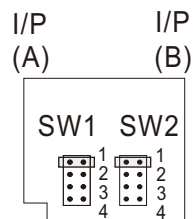
Wiring:



INPUT TYPE SWITCHING

※For NPN/PNP/Pulse/Contact signal, it can be set by switching jumper.

(Mother Board Up Side View)



SW1	JUMPER	DEFINITION (ON:close;OFF:open)
● ●	1	OFF: 12V; ON: 5V
● ●	2	OFF:10KHz; ON: 400Hz
● ●	3	OFF: NPN; ON: PNP
● ●	4	OFF: PNP; ON: NPN

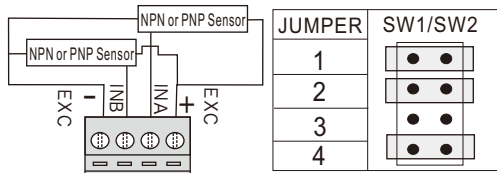
Connection:

NPN (5V): 0~400 Hz

NPN (5V): 0~10 KHz

NPN (12V): 0~400 Hz

NPN (12V): 0~10 KHz



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

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

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

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

PNP (5V): 0~400 Hz

PNP (5V): 0~10 KHz

PNP (12V): 0~400 Hz

PNP (12V): 0~10 KHz

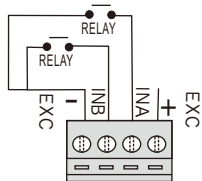
JUMPER	SW1/SW2
1	● ●
2	● ●
3	● ●
4	● ●

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

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

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

Relay Contact: Please choose 0~400 Hz for Relay Input.



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