

G20•21•22

COMMUNICATION PRESET COUNTER WITH TACHOMETER

- DIN SIZE: 144X72, 72X72, 96X48
- DUAL LED DISPLAY
- RS-485 INTERFACE SERIAL COMMUNICATION
- UPTO 4 LEVEL PRESET & OUTPUT
- TACHOMETER & PRESCALE FUNCTION
- EASY OPERATION BY 10 KEY DIGIT PANEL
- DUST & SPLACHPROOF



G20 Series

MODEL SELECTION

G2 - 0

SERIES

G20 : DIN 144 x 72

G21 : DIN 72 x 72

G22 : DIN 96 x 48

TYPE

0 : 1 level preset

1 : 2 level preset

2 : 1 level preset + prewarn

3 : 1 level preset + batch preset

※4 : 1 level preset + prewarn + batch preset

※5 : 2 level preset + batch preset

※6 : 4 level preset

※ For G22 Series, Output of these models are Open Collector Output only.

OUTPUT

0 : Relay output

1 : Open collector output

INPUT

0 : Open collector input

1 : Voltage input

TACHOMETER FUNCTION

0 : with Tachometer



G21 Series



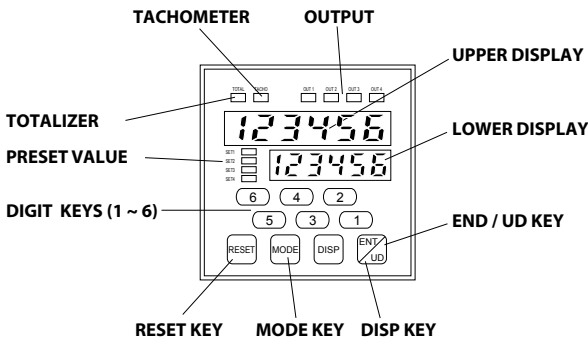
G22 Series

FRONT PANEL

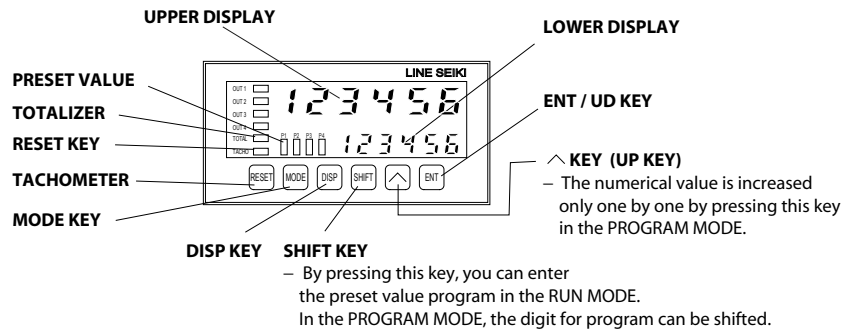
G20 Series

- UPPER DISPLAY**
 - Shows count values, tachometer values and programming items when the unit is in the PROGRAM MODE.
- INDICATOR FOR TOTALIZER**
 - Light is turning ON while total count is on the display.
- INDICATOR FOR TACHOMETER**
 - Light is turning ON while tachometer value is on the display.
- INDICATOR FOR PRESET VALUE**
 - It shows which preset level is on the display.
- INDICATOR FOR OUTPUT**
 - It shows which preset output is ON.
- MODE KEY**
 - This key is used to enter the PROGRAM MODE.
 - Programming items can be changed by pressing MODE key in the PROGRAM MODE.
- RESET KEY**
 - The key is used to reset the count value and output.
- / WR KEY**
 - It shows the count start value.
 - This key is used to set - (minus) code when preset or count start value is edited.
- LOWER DISPLAY**
 - Shows preset values and programmed data. It shows value below the decimal point of count value by pressing every **ENT/UD** key.
- TEN KEYS (0 ~ 9)**
 - These keys are used to input the preset value and enter the PROGRAM MODE with pressing mode keys.
- END / UD KEY**
 - It defines the numeric value when the preset value is edited.
 - In the PROGRAM MODE, this key is used to store the edited data in the memory.
 - It shows the value below decimal point of count value or tachometer value.
- CLR KEY**
 - This key is used to clear the value when preset value is edited.
- DISP KEY**
 - This key is used when changing the programming items and returning to run mode from the PROGRAM MODE.

G21 Series

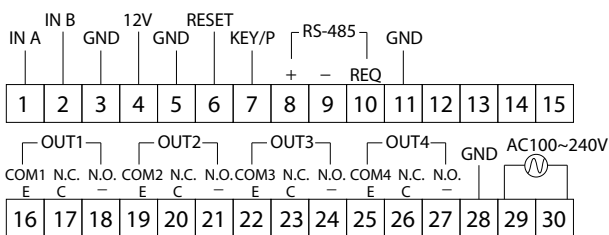


G22 Series



WIRING AND REAR TERMINALS

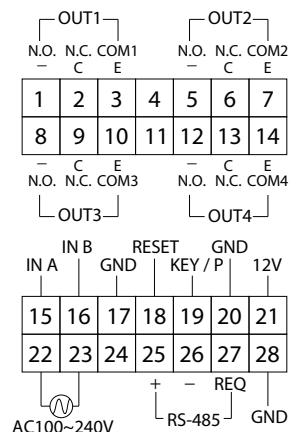
G20 Series



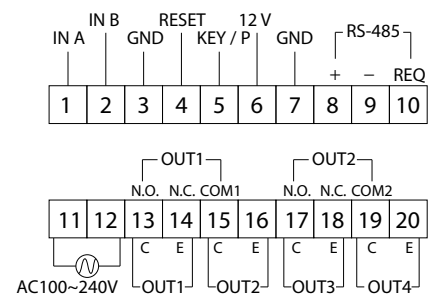
GUIDE TO OUTPUT TERMINALS

MODEL	OUT1	OUT2	OUT3	OUT4
G2 □ - 0 □ □ □	OUT	—	—	—
1 □ □ □	OUT1	OUT2	—	—
2 □ □ □	PREWARN	OUT	—	—
3 □ □ □	OUT	BATCH	—	—
4 1 □ □	PREWARN	OUT	BATCH	—
5 1 □ □	OUT1	OUT2	BATCH	—
6 1 □ □	OUT1	OUT2	OUT3	OUT4

G21 Series



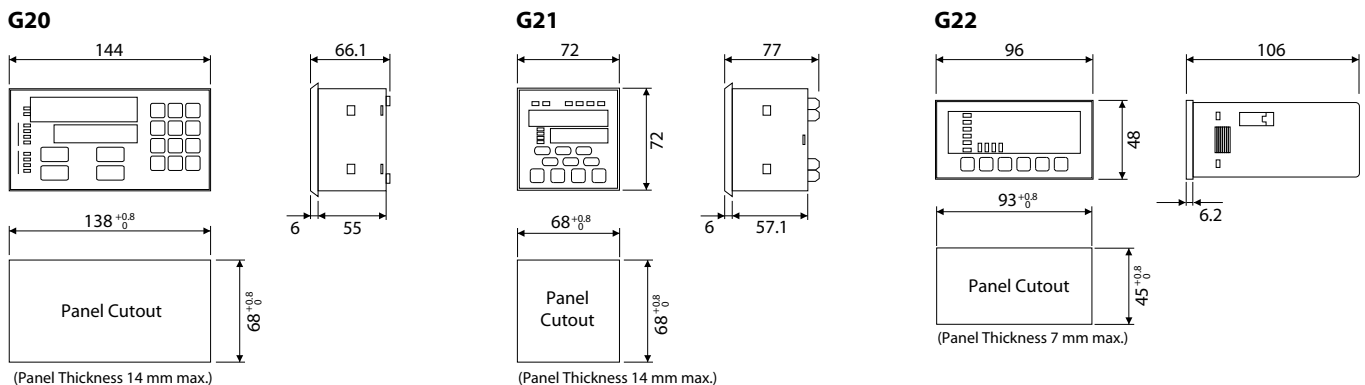
G22 Series



SPECIFICATIONS

MODEL	G20	G21	G22
DISPLAY	Upper Display : Red LED 14.22 × 7.8 Lower Display : Green LED 10.00 × 5.5	Upper Display : Red LED 10.00 × 5.5 Lower Display : Green LED 8.00 × 4.0	
NO. OF DIGITS	Upper Display (Preset Counter, Totalizer, Tachometer, Batch Counter) : 6 digits ; Lower Display (Preset Value) : 6 digits		
SETTING RANGE	Preset Value (P1 ~ P4) : -99999 ~ 999999 ; Prewarn Value (PW), Batch Preset Value (PB) : 0 ~ 999999		
COUNT INPUT	Open Collector : L : 0 ~ 6V (Sink Current : 10mA) Voltage : L : 0 ~ 4V H : 6 ~ 30V (Input Impedance 7kΩ)		
COUNT SPEED	30 Hz (Pulse width 16ms Duty 1:1) 1 kHz (Pulse width 500μs Duty 1:1) 5 kHz (Pulse width 100μs Duty 1:1) 8 kHz (Pulse width 62.5μs Duty 1:1)		
COUNT MODE	Add / Subtract / Individual add, subtract / 90° Quadrature		
PRESCALE	Multiplying : 0.00001 ~ 999.999 Dividing : 1 ~ 9999		
DECIMAL POINT	0.0, 0.00, 0.000, 0.0000, 0.00000		
FREE WRITE	-99999 ~ 999999		
KEY PROTECT	Prohibition for front key reset, preset value editing, count start value editing or editing data in program mode.		
MEMORY	EEPROM (10 years : can be used 100,000 times)		
TACHOMETER	1 / TAU Standard Sampling (Measuring Accuracy : ±0.1%)		
COMMUNICATION	RS-485 Serial interface (Read count value, preset value. Send preset value. Read the condition of reset and preset output condition)		
RESET	Front reset / Remote reset		
OPERATION	Overflow/Auto-reset/Equal/Upper-Lower Limit. (Model with prewarn function—no Upper-Lower Limit, with Batch Function—no Upper-Lower Limit/Equal)		
OUTPUT TYPE	Contact Output : Relay Type 1C (AC250V, 3A / DC30V, 3A resistance load) Open Collector Output : DC30V 100 mA maximum		
OUTPUT DELAY	6 ms maximum		
OUTPUT	One - shot pulse / Latch		
OUTPUT TIME	10 ms ~ 9990 ms (at 10ms steps)		
SENSOR POWER SUPPLY	DC12V ±10% 100mA maximum		
POWER SUPPLY	AC100 ~ 240V -15%, +10%		
WEIGHT	360 grams	280 grams	270 grams

DIMENSIONS



* Specifications Subject to Change Without Prior Notice
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LINE SEIKI CO., LTD.

Address : 37-7, Chuo-Cho, 2-Chome, Meguro-ku
Tokyo 152-0001 JAPAN
Contacts : Tel: +81-3-3716-5151 Fax: +81-3-3710-4552
E-mail: sales@line.co.jp
URL : http://www.line.co.jp