

G20 21

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



G20 Series

■ MODEL SELECTION

G2 - 0

SERIES

- G20 : DIN 144 x 72
- G21 : DIN 72 x 72

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

OUTPUT

- 0 : Relay output
- 1 : Open collector output

INPUT

- 0 : Open collector input
- 1 : Voltage input



G21 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 \square ENT/UD \square 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.

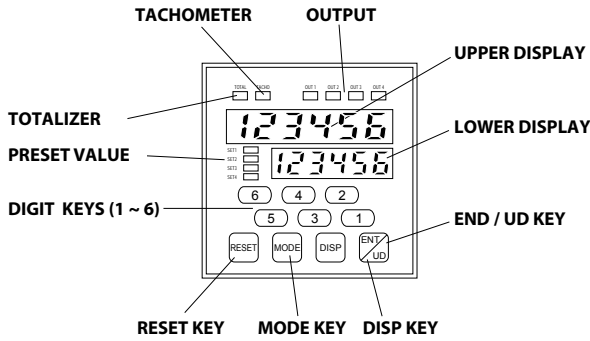
CLR KEY

This key is used to clear the value when preset value is edited.

DISP KEY

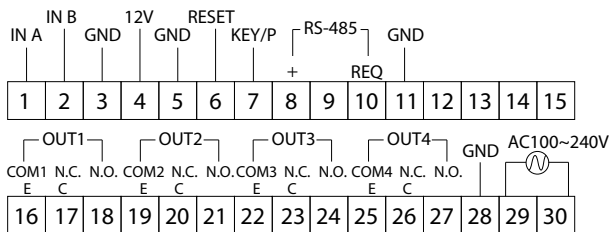
This key is used when changing the programming items and returning to run mode from the PROGRAM MODE.

G21 Series



WIRING AND REAR TERMINALS

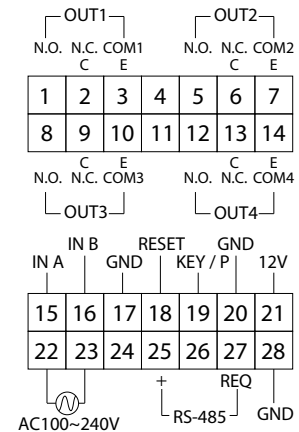
G20 Series



GUIDE TO OUTPUT TERMINALS

MODEL	OUT1	OUT2	OUT3	OUT4
G2 □ □	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

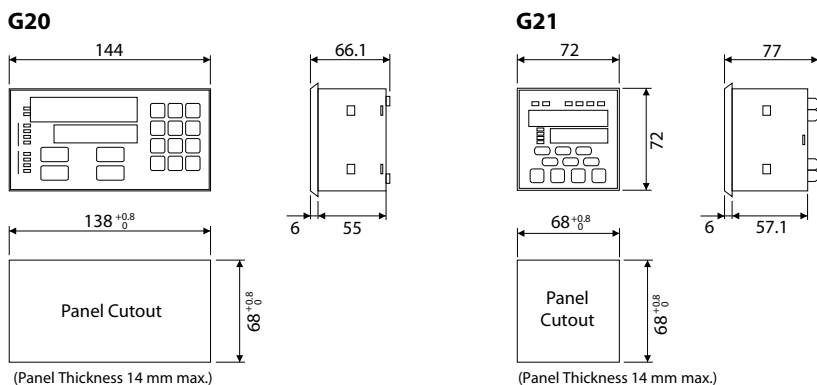
G21 Series



SPECIFICATIONS

MODEL	G20	G21
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 7k)	
COUNT SPEED	30 Hz (Pulse width 16ms Duty 1:1) 1 kHz (Pulse width 500 s Duty 1:1) 5 kHz (Pulse width 100 s Duty 1:1) 8 kHz (Pulse width 62.5 s 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	Overrun/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

DIMENSIONS



* Specifications Subject to Change Without Prior Notice
All Rights Reserved, Copyright © 2003 Line Seiki Co., Ltd.
2003.07.11.2220A



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: webtrade@line.co.jp

URL : <http://www.line-seiki.com>