

# 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~~ **Discontinued**
- 6: 4 level preset

#### OUTPUT

- 0: Relay output
- 1: Open collector output

#### INPUT

- 0: Open collector input
- 1: Voltage input



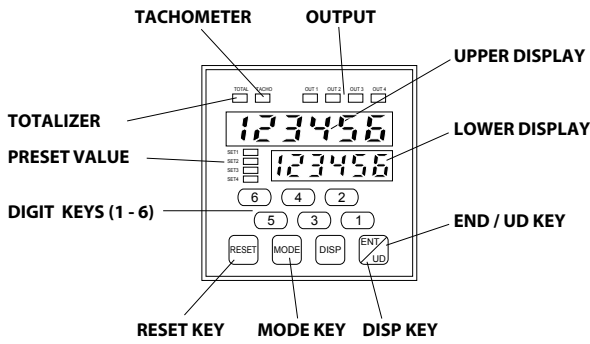
G21 Series

## FRONT PANEL

### G20 Series

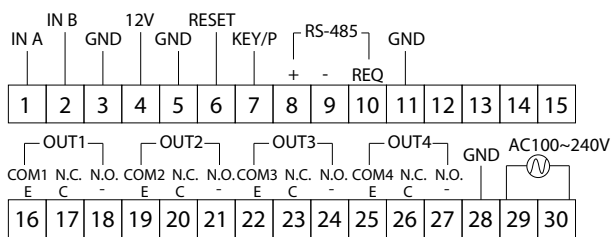
- UPPER DISPLAY**
  - Shows count values, tachometer values and programming items when the unit is in the PROGRAM MODE.
- INDICATOR FOR TOTALIZER**
  - Light is turning ON while total count is on the display.
- INDICATOR FOR TACHOMETER**
  - Light is turning ON while tachometer value is on the display.
- 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 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



## WIRING AND REAR TERMINALS

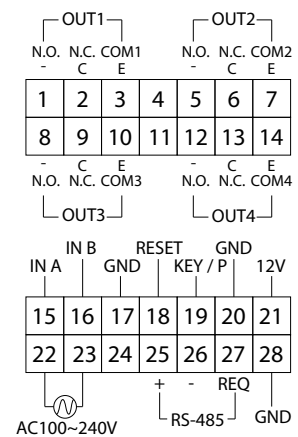
### G20 Series



#### 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

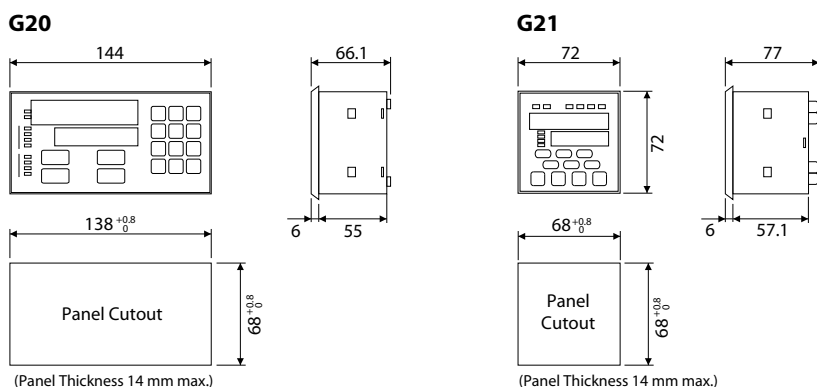


**Discontinued**

## SPECIFICATIONS

MODEL	G20	G21
DISPLAY	Upper Display : Red LED 14.22 x 7.8 Lower Display : Green LED 10.00 x 5.5	Upper Display : Red LED 10.00 x 5.5 Lower Display : Green LED 8.00 x 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

## DIMENSIONS



\* Specifications Subject to Change Without Prior Notice  
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