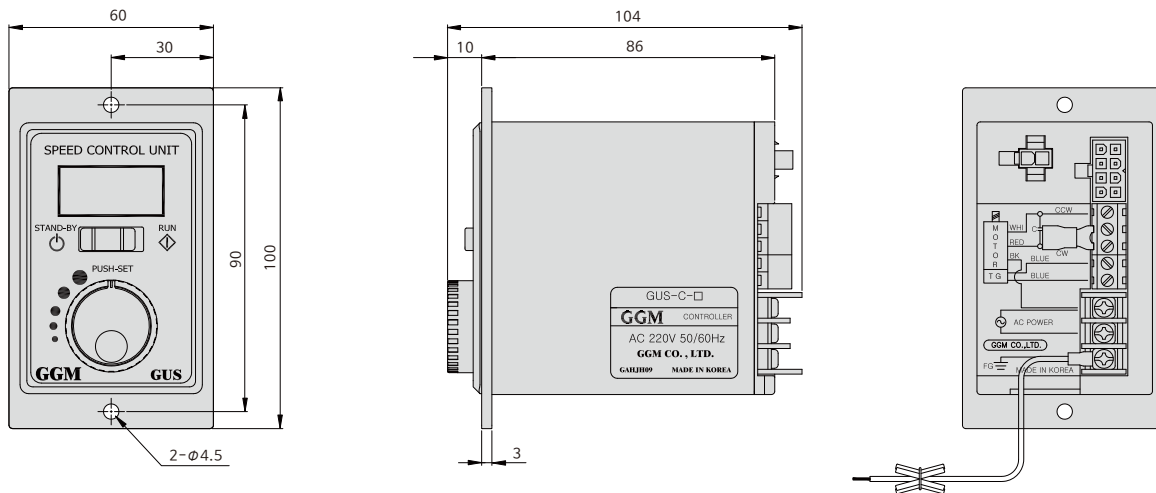


## SPEED CONTROL UNIT - GUS

Diagram and general contents



### Appearance of Products



### Confirmation when the product is handed over

- Confirm that the delivered product is the product you ordered.
- If a different product is installed, it will create the risk of injury or fire.
- Contact a nearby retail store if you were delivered an insufficient number of products or if a damaged product was delivered.

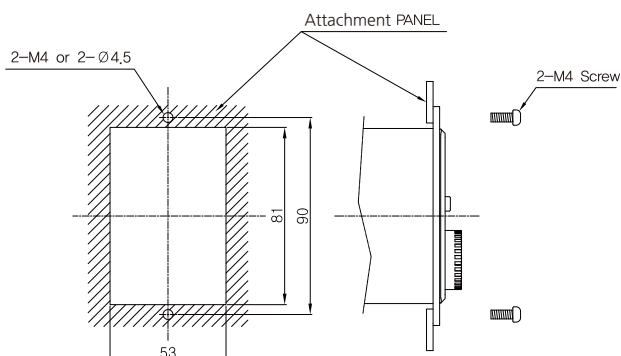
- 1) CONTROLLER ----- one
- 2) One Extension cable (0.5m) ----- one
- 3) External operation cable (0.5m) ----- one
- 4) User's manual (this manual) ----- one
- 5) Optional (extension cable)

Item name	length of extension cable
KE-05	0.5m
KE-10	1m
KE-15	1.5m
KE-20	2m

### Specification

Property & Model name	GUS-U-□	GUS-C-□
Rated voltage and power frequency	Single-phase AC 110V 50/60Hz Single-phase AC 115V 50/60Hz	Single-phase AC 220~240V 50/60Hz
Operating voltage range	±10% (in comparison to the rated voltage)	
Applied motor output	INDUCTION : 6 ~ 180W REVERSIBLE : 6 ~ 180W	
Speed control range	60Hz : 100~1730rpm 50Hz : 100~1430rpm	
Speed regulation	±5% (Standard value)	
Speed setting	Set according to the volume	
Operating temperature range	-10~40°C	
Storage temperature range	-20~60°C	
Operating humidity range	less than 85% (in an environment with no dew condensation)	

### Panel process drawing

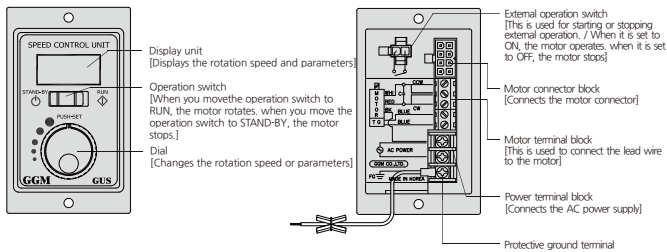


### Product Features

- ① Indicates the current rotation speed (r/min).
- ② The motor speed can be controlled simply by connecting the motor and the control unit with the exclusive connector and connecting the AC terminal to the power source.
- ③ You can increase the space between the motor and the control unit by up to 2M and control the speed by using the optional extension cable for the connector.
- ④ You can control the speed simply by using the front dial.  
- Variable speed range 50Hz : 100 ~ 1430 r/min,  
60Hz : 100 ~ 1730 r/min
- ⑤ Various operation modes can be set through the parameter setting.

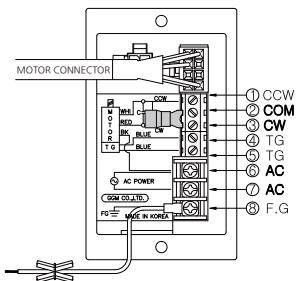
## SPEED CONTROL UNIT

### Names and functions of each part



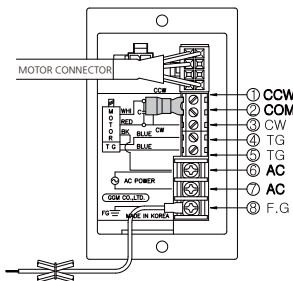
### How to Use

#### ▶ Forward operation wiring



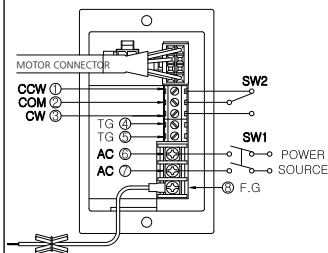
- 1) Connect the motor connector
- 2) Connect the ②COM and ③CW terminals.
- 3) Connect the AC power to the ⑥ and ⑦ terminals.

#### ▶ Reverse operation wiring



- 1) Connect the motor connector
- 2) Connect the ②COM and ③CW terminals.
- 3) Connect the AC power to the ⑥ and ⑦ terminals.

#### ▶ Two-way operation wiring

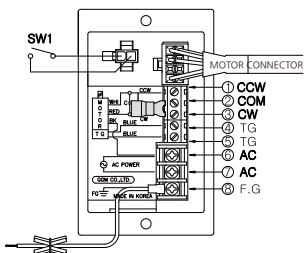


- 1) Connect the motor connector.
  - 2) Install the power supply switch (SW1) and the forward and reverse rotation exchange switch (SW2) and change the rotation direction.
- Instantaneous forward and reverse rotation are unavailable. Turn off the power supply switch (SW1), and when the motor has stopped completely, replace the switch (SW2) to change the direction.

**Caution** If you replace the switch (SW2) to change the direction when the power supply switch (SW1) is ON, it may damage the controller.

SWITCH	Switch contact capacity
SW1	AC 125V or 250V 5A or higher
SW2	AC 125V or 250V 5A or higher

#### ▶ External operation wiring



- 1) Connect the motor connector.
  - 2) Connect the ②COM and ③CW terminals. (CW operation) Refer to the CCW operation and two-way operation wiring.
  - 3) Connect the AC power to terminals ⑥ and ⑦.
  - 4) Install the external operation switch (SW1).
- When you move the front operation switch to STAND-BY and turn on the external operation switch (SW1), the motor operates. When you turn off the external operation switch (SW1), the motor stops.



### Operation sequence

After wiring, operate the product as follows.

- ① AC power supplied

The indication turns on. (Rotation speed)

- ② Control of operation switch (operation)

When you move the operation switch to RUN, the motor will rotate.

- ③ Setting the rotation speed

When you turn the dial, the rotation speed will change. The rotation speed changed by the speed to rotate the dial.

Display of rotation speed  
When the power is supplied again, the motor will rotate at the new rotation speed.

- ④ Control of operation switch (stop)

When you move the operation switch to STAND-BY, the motor will stop.

### Parameters

Display unit	Function	Range	Default value	Note
RATE r d E E	Reduction gear ratio	1~999	1.0	Set the reduction gear ratio (can be adjusted in increments of 0.1) REAL RPM = Motor rotation speed / reduction gear ratio
S-ON S - ON	Acceleration time	0~15	0.0	Mode set to accelerate the rotation of the motor slowly (set in increments of 0.1 seconds)
SOFF S OFF	Deceleration time	0~15	0.0	Mode set to decelerate the rotation of the motor slowly (set in increments of 0.1 seconds)
LOCK L O C K	Lock function	YES NO	NO	Mode set to prevent any change in the set operation condition by locking setting key other than RUN and STAND-BY keys. YES: Enable locking mode NO: Disable locking mode

### Parameter setting sequence

- ① Supply AC power

The indication turns on. (Rotation speed)

- ② Entering the parameter mode

Press and hold the dial (PUSH-SET) for 3 seconds to enter the parameter mode.

Press and hold (3 seconds)

- ③ Selection of a parameter

Turn the dial and select the desired parameter (4 parameters)  
Modes can be selected in the order of  
RATE -> S-ON -> SOFF -> LOCK  
(reduction gear ratio) -> (acceleration time) -> (deceleration time) -> (locking)

- ④ Entering the parameter data

Press the dial (PUSH-SET) to enter the selected parameter data.  
When you press the dial (PUSH-SET) after entering the data, the parameter selection mode will be displayed.

Short press

- ⑤ Changing the parameter data

When you rotate the dial, the data value will change. Set the desired data value.

- ⑥ Finishing the parameter data change and entering the operation mode

When you press and hold the dial (PUSH-SET) for 2 seconds, the changed value will be set and you will enter the operation mode.

Press and hold (2 seconds)

To enter operation mode after entering the parameter mode, press and hold the dial (PUSH-SET) for 2 seconds.