

## Model KG20 I/P Converter

### OUTLINE

This electricity-to-air converter KG20 is applied to the case where a signal current of 4 mA to 20 mA is converted into an air pressure signal of 20 kPa to 100 kPa (0.2 kgf/cm<sup>2</sup> to 1 kgf/cm<sup>2</sup>) and a pneumatically controlled mechanism including a diaphragm type adjusting valve, etc. is activated.

### FEATURES

- Connection work is easily performed because the air connection and input terminal connection board are installed in the outside of this converter.
- Zero adjustment can be performed from the front side without removing the cover.
- The control panels are mainly installed in the front side and the bottom side, making a comparatively nearby installation possible.

### SPECIFICATION 1

#### Operating condition:

Under the normal condition, where there is no inflammable gas or liquid which cause the ignition or explosion

#### Mounting:

Surface mounting

#### Connection:

Rc 1/4 (PT female), 1/4 NPT female

#### Input signal:

4 ~ 20mA DC

#### Operating temperature:

-10°C ~ 50°C (But fluid should not be frozen )

#### Input resistance:

Approx. 200Ω ~ approx. 250Ω

#### Supply air pressure:

140±10kPa, 1.4±0.1kgf/cm<sup>2</sup>

#### Air consumption:

Approx. 3 L / min (normal) [At 50 % balance]

#### Output signal:

20 ~ 100kPa, 0.2 ~ 1kgf/cm<sup>2</sup>

#### Accuracy:

±0.75 % F.S. or ±1.5 % F.S.

#### Construction:

Indoor use

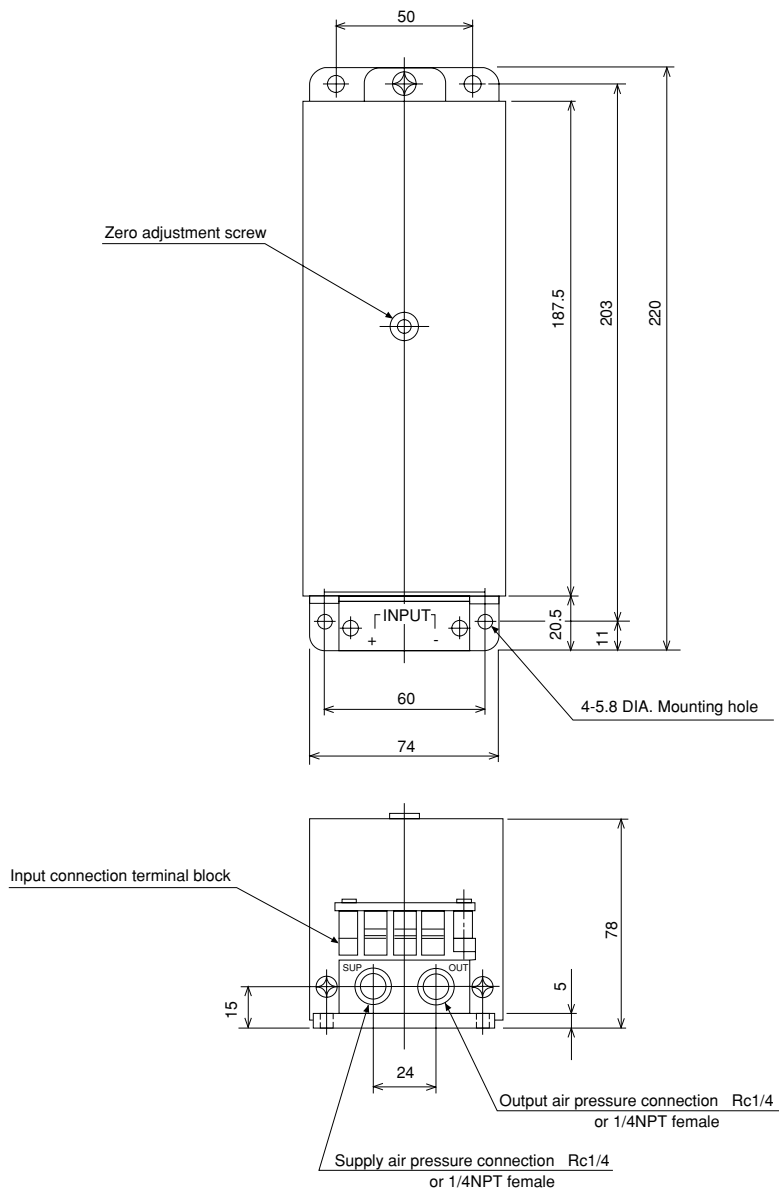
#### Case finishing:

Gray, Crystallization painting

#### Weight:

Approx. 2.2 kg

## DIMENSIONS



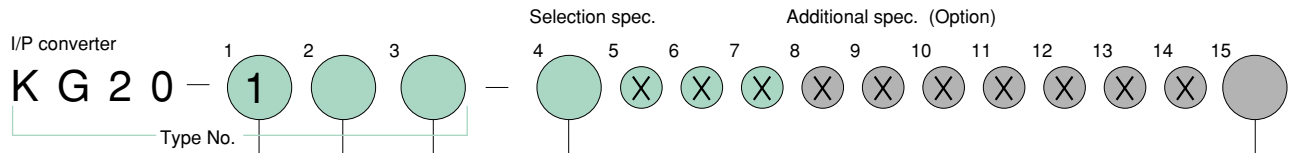
## INSTALLATION

1. Mounting is made by fixing by 4pcs. of M5 screw.
  2. Sould be installed at no-vibration and no-rainwater.
  3. Pipe for air should be flushing.
  4. Capacity of output side should be designed as 200ml or over.
- (Note: When less than 200ml is required, special model is prepared and it's accuracy is  $\pm 1.5\%$  only.)

# Type No. constitution

Please specify Type No., each specification and range when ordering.

Note: For this Model, there is no applicable item for the figures X, but please specify X when ordering.



1 Mounting

1	Surface mounting
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2 Connection

5	Rc 1/4
6	1/4 NPT female

4 Accuracy

5	±0.75%F.S.
7	±1.5%F.S.

3 Output signal

	Output signal	Supply air pressure
C	20 ~ 100kPa	140±10kPa
A	0.2 ~ 1kgf/cm <sup>2</sup>	1.4±0.1kgf/cm <sup>2</sup>

15 Document

0	Nil
1	Please specify your requirement Drawing one sheet, Instruction manual, Inspection procedure, Mill sheet, Test report