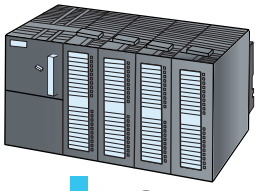
PROFIBUS communication converter

Temperature controllers can be easily linked to PROFIBUS-DP !

COM-G

COM-G is a communication converter to connect RKC products to a Profibus-DP network. A single COM-G accepts up to 31 instruments to be linked.
One COM-G connects up to 31 RKC controllers including LE100, back-pressure meter, to Profibus-DP network. In addition, different controller models can be connected to the same COM-G, such as 10 units of CB900, 10 units of F900, and 12 units of LE100 to one COM-G.
COM-G is a DIN-rail mounted, and has operating voltage selections of 24VDC, 110 to 120VAC, and 200 to 240VAC.

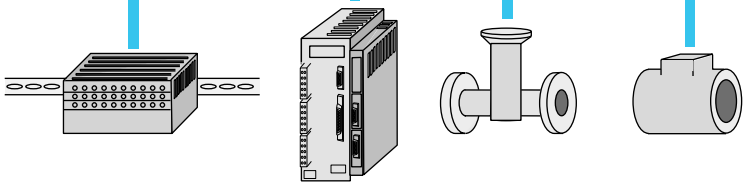


PLC
(Master device)

PROFIBUS-DP

COM-G
Communication
Converter

RS-485
(RKC/ANSI protocol)



Slave devices

RKC products Max. 31 instruments can be connected

CB100/400/500/700/900

1/32 DIN :SA200

REX-F400/F700/F900

Back pressure level meter:LE100

RKC® RKC INSTRUMENT INC.

Specifications

Profibus communication

Communication method : Physical phase RS-485
User phase : EN50170 (PROFIBUS-DP)
Transmission speed : Max. 12Mbps
• Transmission speed is automatically adjusted by the master side according to the line quality or can quality or can be specified by sequence program of the PLC.

RKC Communication

Communication method :	RS-485 or RS-422A
Protocol :	ANSI X3.28 sub-category 2.5B1
Connection :	2-wire multi-drop connection (RS-485) 4-wire multi-drop connection (RS-422A)
Synchronization :	Start/Stop synchronization
Communication speed :	9600bps,19200bps (Default: 19200bps) * Selectable
Bit format :	a) Start bit : 1 b) Data bit : 8 c) Parity bit : None d) Stop bit : 1
Data type :	JIS/ASCII 7-bit code
Maximum connection :	Max. 31 to a single COM-G

General Specifications

Insulation resistance :	More than 20MΩ (500V DC) between power and ground terminals
Dielectric strength :	1500V AC for one minute between power and terminals
Supply voltage :	a) 90 to 132V AC (Including supply voltage variation) [Rating : 100 to 120V AC] (50/60Hz common) b) 180 to 264V AC (Including supply voltage variation) [Rating : 120 to 240V AC] (50/60Hz common) c) 21.6 to 26.4V DC (Including supply voltage variation) [Rating: 24V DC]
Power consumption :	a) AC type 100 to 120V AC : max. 5VA 200 to 240V AC : max. 9VA b) DC type : max. 3W, 15mA
Self-diagnosis :	Check items: power supply monitor Lamp action : FAIL lights
Ambient temperature :	0 to 50℃ (32 to 122℉)
Ambient humidity :	20 to 85%RH
Weight :	Approx. 300g.
External dimensions :	48 (W) X 96 (H) X 100 (D)mm
Operating environment:	Free from corrosive and flammable gas and dust.
Other conditions :	Free from external noise, vibration, shock and exposure to sunlight.

Compliance with standards

• CE marked
• UL recognized
• CSA certified

Model code

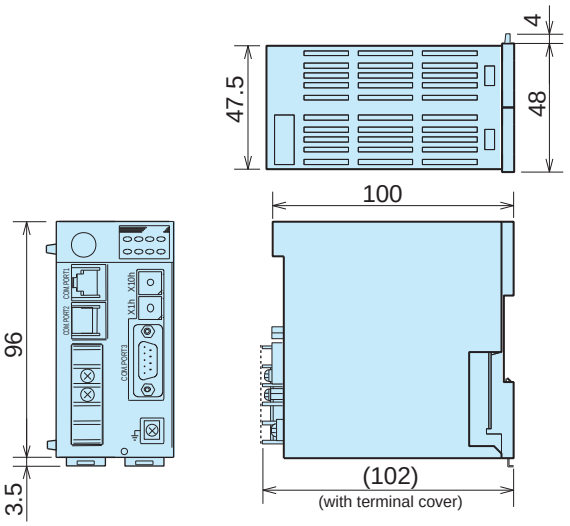
Specification	Description	Suffix code
Basic model	COM-G	– □ – □
Supply voltage	100 to 120V AC 200 to 240V AC 24V DC	1 2 3
Available controllers	Temperature controllers : CB100/400/500/700/900, SA200, REX-F400/700/900 Back-pressure level meter:LE100	01

■ Cable

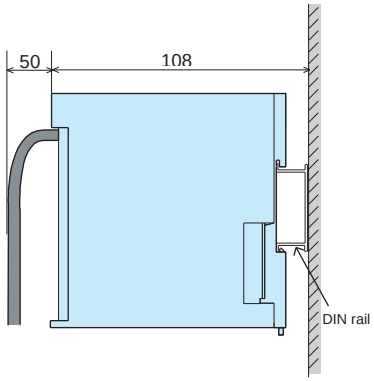
Specifications	Model code
Between COM-G and our products (3 meters)	W-BF-01-3000

External dimensions

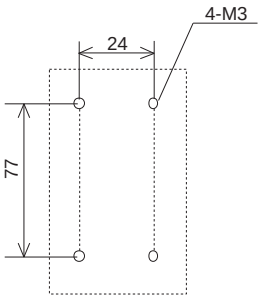
unit:mm



- Depth when mounted on DIN-rail



- Dimensions when mounted on a panel



Safety Warning

•Before operating this product, read the instruction manual carefully to avoid incorrect operation.
•This product is intended for use with industrial machines, test and measuring equipment. It is not designed for use with medical equipment.
•If it is possible that an accident may occur as a result of the failure of the product or some other abnormality, an appropriate independent protection device must be installed.
•When installing this product, avoid the following:
•Direct exposure to sunlight.

• An ambient temperature lower than 0°C or higher than 50°C
• Areas subject to high humidity. Ambient humidity should not be lower than 45% or higher than 85%RH
• Direct contact with water.
• Corrosive environments.
• Hazardous areas containing explosive or flammable gases.
• Vibration or shock.
• Areas subject to electrical noise caused by inductive interference, static electricity or magnetic fields.

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