

Device Net communication converter

Multi-loop temperature controllers connectable to DeviceNet!

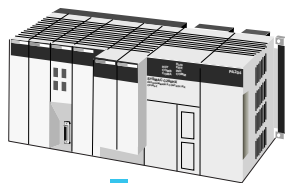
COM-H



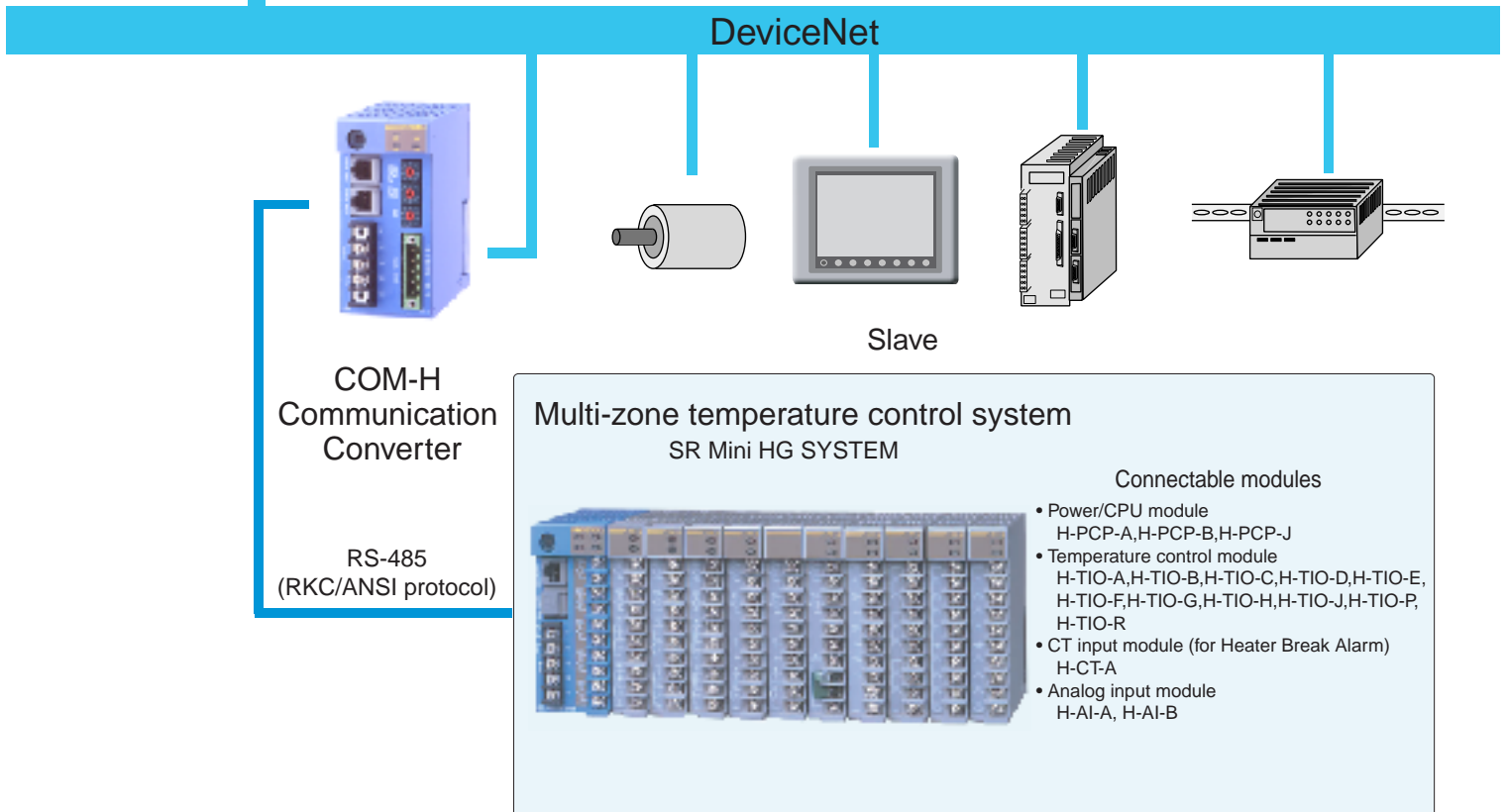
COM-H is a communication converter to be used with the SR Mini HG SYSTEM to connect to a DeviceNet network.

It is connected between a DeviceNet network and the SR Mini HG SYSTEM.

The SR Mini multi-loop controllers is capable of up to 20 zones of autotuning PID control in a single rack. The COM-H may connect to only one SR Mini rack.



PLC (Master)



Specifications

DeviceNet communication

Protocol : DeviceNet equivalent
 Supported connection : Polling I/O, Explicit message
 Communication type : Multi-drop, T-branch method
 (Terminal resistor required)
 Communication speed : 500kbps, 250kbps, 125kbps

Speed	Max.length ^{*1}	Branch	Trunk line
500kbps	100m or less ^{*2}	6m >	39m >
250kbps	250m or less ^{*2}	6m >	78m >
125kbps	500m or less ^{*2}	6m >	156m >

Maximum node : 64 (including Master)
 Error control check : CRC error and node address (MAC ID) duplication check.

^{*1} Distance between two farthest nodes.
^{*2} 100m or less if thin exclusive cable is used in a trunk line.

RKC controller communication

Communication method : RS-422A or RS-232C equivalent
 Connection : * To be specified at the time of ordering
 RS-422A : 4-wire multi-drop connection
 RS-232C : Point-to-Point connection
 Protocol : ANSI X3.28 subcategory 2.5B1
 Synchronization : Start/Stop method
 Communication speed : 19200bps, 9600bps, 4800bps
 (default : 9600bps)
 * Specify one from the above.
 Bit format :
 a) Start-bit : 1
 b) Data bit : 7 or 8
 c) Parity bit : Without, Odd or Even
 d) Stop bit : Stop bit 1
 Communication code : JIS/ASCII 7-bit code
 Maximum connection : For a single COM-H, one unit of SR Mini HG

General specifications

Insulation resistance : More than 20MΩ (500V DC) between power and ground terminals
 More than 20MΩ (500V DC) between communication and ground terminals
 Dielectric strength : 1500V AC for one minute between power and terminals
 1000V AC for one minute between communication and ground terminals
 Supply voltage : 21.6 to 26.4V DC (Ripple rate 10%p-p or less)
 (Rating : 24V DC)
 Power consumption : Max.70mA
 Self-diagnosis : Check items : watchdog timer
 Lamp action : Red LED (MS) blinks, and all other displays go off.
 Ambient temperature : 0 to 50°C (32 to 122°F)
 Ambient humidity : 45 to 85%RH
 Weight : Approx. 270g.
 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

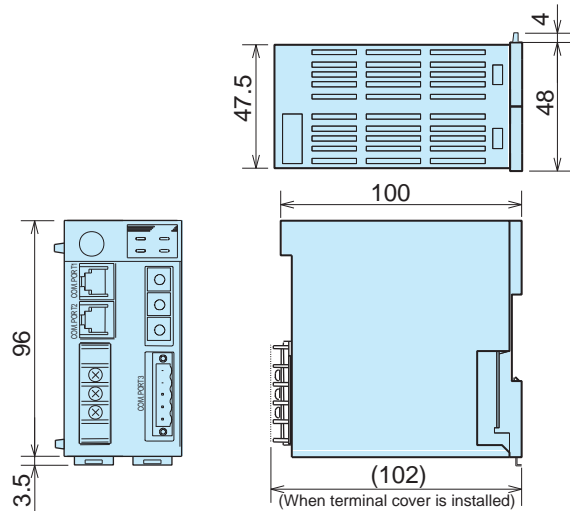
Specifications	Description	Suffix code
Model code	COM-H	- □ - □ - □ - □
Supply voltage	24V DC	3
Available controller	SR Mini HG SYSTEM 10
Communication	RS-232C 1
	RS-422A 4
Connector for DeviceNet	Open connector N
	Micro connector 1

Cable

Specifications	Model code
Cable between COM-H and SR Mini HG (length: 3m)	W-BF-02-3000

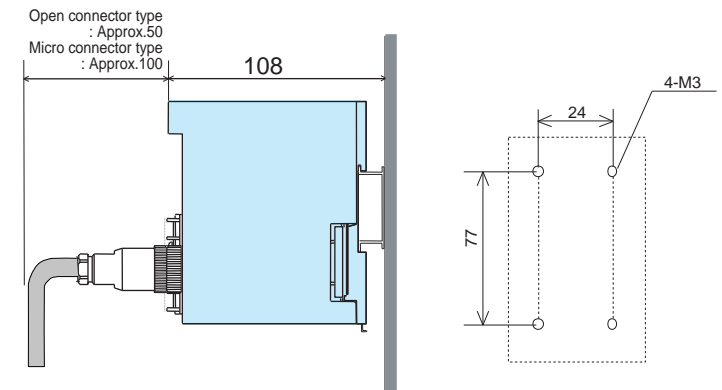
External Dimensions

Unit:mm



Depth when mounted on a DIN-rail

Mounting on a panel



* Product names mentioned herein may be trademarks and/or registered trademarks of their respective companies.



•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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