

# DS-NET Adapter <DTA113A51>

## 1. Outline and Features

Installing the DS-NET Adapter onto indoor units enables online A/C control and monitoring from a BMS via modem.

Moreover, it enables automatic intermittent operation and backup operation of A/C units even when not using the remote function.

The DS-NET Adapter controls indoor units connected to a maximum of three remote control lines (N,P).

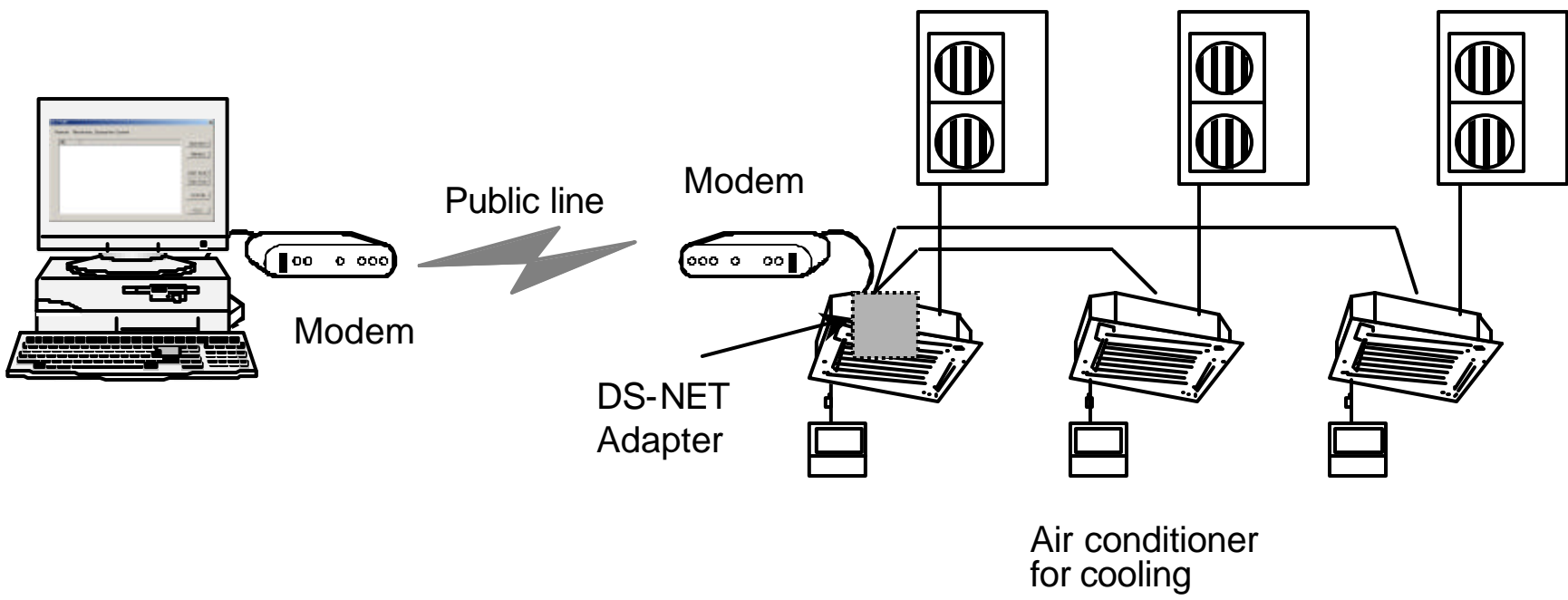
(Note)

1. The DS-NET Adapter cannot be used in combination with centralized control devices, Master Station II, D-BIPS or the like (because the commands compete).
2. The DS-NET Adapter cannot be used in combination with remote group control adapters (because they both function as sub remote controllers)
3. The DS-NET Adapter can be used with all available indoor units (comes with four types of power cables).
4. Once the DS-NET Adapter has been installed, two remote controllers cannot be used (because the adapter functions as a sub remote controller).

## 2. Applicable Models

Product	Model	Power Cable	Model Name on the Panel
Overseas Sky Air	Medium Static Pressure Duct	500mm	-
	Corner		
	Built-in		
	Wall-mounted		
	Ceiling-suspended	800mm	KRP1C93
	Floor-standing		KRP4A95
	High Static Pressure Duct	1150mm	KRP1B100
	4-way Cassette (Super Cassette in the Asian market)		KRP1B98
	4-way Cassette (New Super Cassette in the European market)		KRP1C98
	Wonderful		KRP1B97
	Low Static Pressure Duct	1190mm	KRP1B100

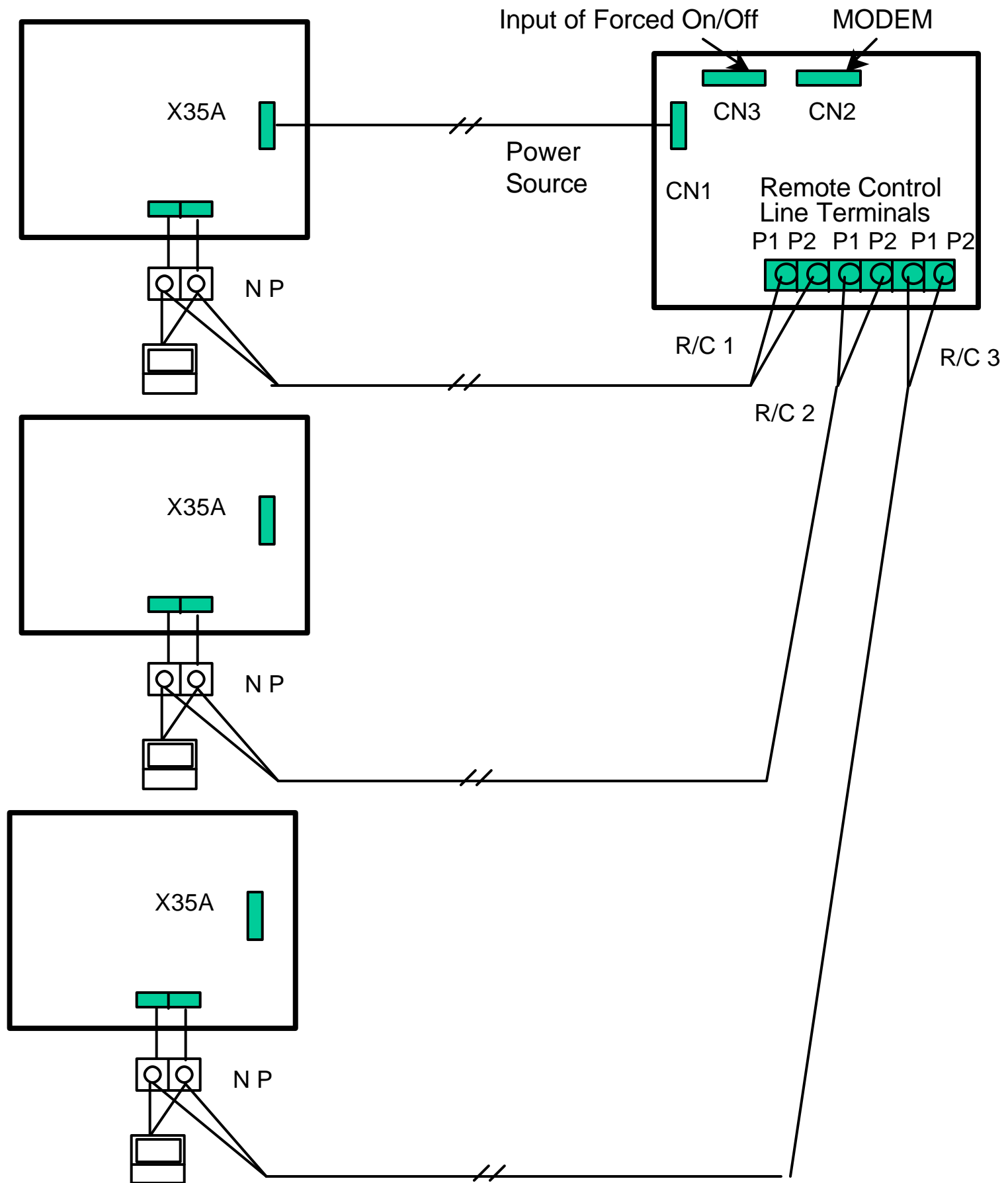
### 3. System Configuration



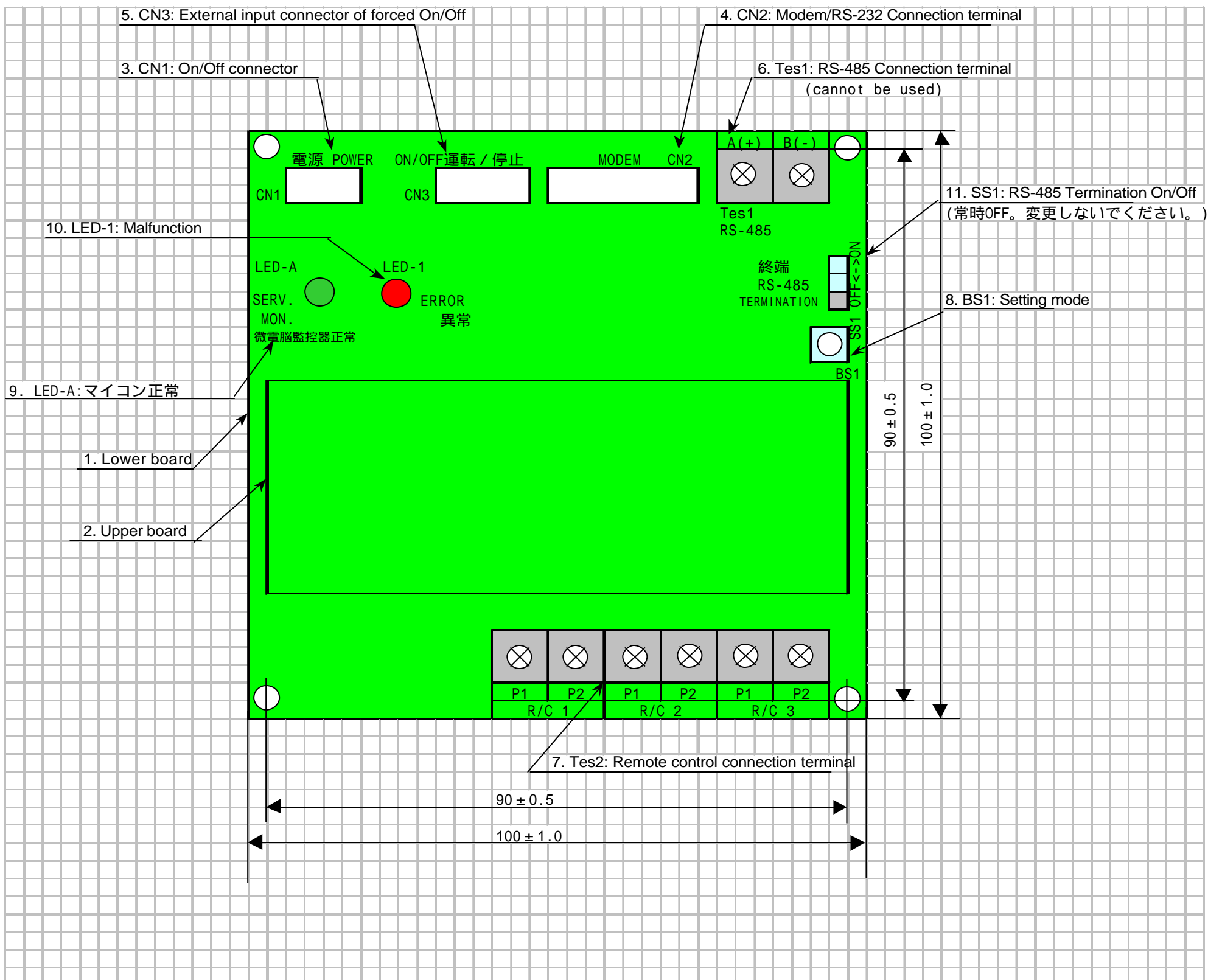
### • Wiring

Sky Air Indoor Unit Printed Circuit Board

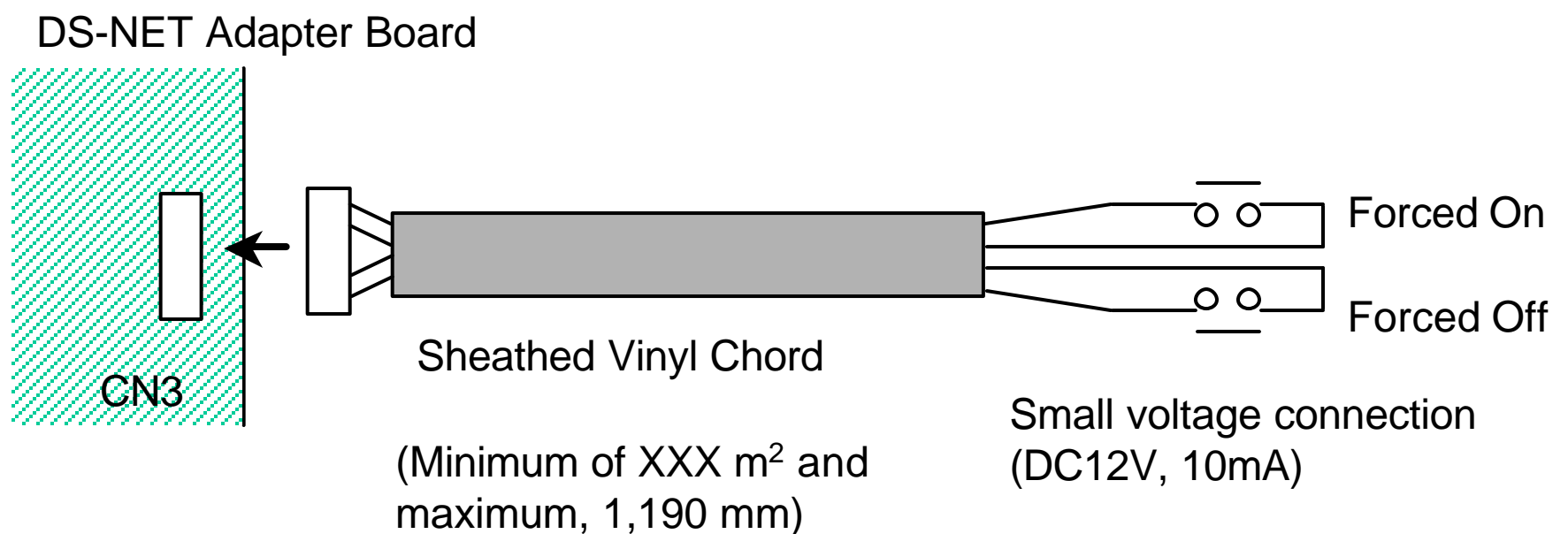
DS-NET Adapter <DTA113A52>



## 4. Components and Functions



## 5. External Input of Forced On/Off



## 6. Setting with the Remote Control Service Function

In order to operate the DS-NET Adapter, it is necessary to use the remote control services to set the various operation modes.

### 6-1. Settings with remote control service function

**Bold lettering** denotes settings when shipped from factory.

- Host Unit: **Yes/No**....Set as Yes when operating from a remote PC.
- Backup Control: **Yes/No**....Set as Yes when enabling the backup operation.
- Sequential Startup Control: **Yes/No**.... Set as Yes when enabling the sequential startup operation.
- Automatic Altering Operation: **0~99**...Sets the time interval for intermittent operation.  
Asterisk denotes no automatic intermittent operation.
- Guaranteed Minimum Operating Units: **1/2**...Sets the guaranteed minimum number of units during automatic intermittent operation.
- Automatic Connection: **No/Yes**...When using the phone line for calls, this function can be set at No.
- On time alarm: **00:00~23:59**...Sets the time at which system transmits signals.  
The time set when shipped from factory is **2:00**.

#### Backup Control

When an operating A/C unit is shutdown due to power failure or malfunction (not including alarms or caution reports), the backup function starts up the same number of units that were operating before the shutdown. Once the A/C units that were shutdown due to malfunction return to normal operation, the backup function shuts down the units that were started up as backup.

#### Sequential Startup Control

The sequential startup control function, or 'sequential starting' prevents the flow of a large starting current when all A/C units are simultaneously started up in a case of total system operation.

The function delays the start up timing of each of the units by some 4 seconds so the system's A/C units do not start up simultaneously.

#### Automatic Intermittent Operation Control

This is a function that controls A/C unit On/Off at predetermined time interval to balance out the amount of time each of units are operating. The operation pattern is determined according to the number of A/C units connected and guaranteed minimum operating units.

## 7. Considerations When Setting

1. The DS-NET Adapter cannot be used in combination with centralized control devices, Master Station II, D-BIPS or the like (because the commands compete).
2. The DS-NET Adapter cannot be used in combination with group remote control adapters.

The reason for this is that the DS-NET Adapter and group remote control adapters both serve as sub remote controllers.

In order to address this problem, the display of remote On/Off and malfunctions could be done at the connection using Sky Air connecting adapters and remote control adapters.

It would receive the On/Off commands remotely during automatic backup operation and rotational operation. Furthermore, it would enable automatic operation when events triggering an automatic On-Off operation occur during remote start/stop.

However, the following restrictions would apply in such a combination.

This is based on the fact that the DS-NET Adapter is not connected to a central devices (which in this case refers to the remote control adapter). Therefore, even if set to prohibit remote controlled operation from the remote control adapter, start/stop of the indoor units can be controlled by the DS-NET Adapter. (The allowance/prohibition of set temperatures can also be controlled with the DS-NET Adapter.)

3. Once the DS-NET Adapter has been installed, two remote controllers cannot be used. (because the DS-NET Adapter functions as a sub remote controller)

For the same reason explained in the above number 2, the DS-NET Adapter cannot be used in combination with two remote controllers.

# Combined Use of the DS-NET Adapter and Remote Control Adapter

