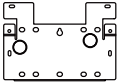









2-3. Touch panel controller (UTY-DTG*Z1)



- Large-sized 7.5 inch TFT color
- LCD easy finger touch operation
- Stylish shape and design to suit all application
- No additional component is required for installation.
- Up to 400 indoor units can be controlled.
- Selectable 2 display types (icon/list) in monitoring mode
- Corresponds to 7 different languages. (English, Chinese, French, German, Spanish, Russian, and Polish)

■ Accessory

Name and shape	Q'ty	Application
 Installation plate	1	For Touch panel controller installation (It is attached to the back of the Touch panel controller)
 Screw	8	Screw for Touch panel controller installation
 Washer	8	Washer for Touch panel controller installation
 Touch pen	1	Pen for Touch panel controller installation
 Cable tie	4	For prevention dropping off of the cable
 CD-ROM	1	Includes the operating manual and file making sheet of this controller
 Installation manual	1	
 Operation manual	1	

■ Available option

Option	Model name	Remark
Electricity charge apportionment option	UTY-PTGXA	Apportions the power used by indoor and outdoor units, and automatically calculation the electricity charge such as for hotels or multi-tenant buildings. Computation linked with an electric meter is also possible.

- Specifications

Number of sites	Max. 20
Number of contracts	Max. 400 (per site)
Number of blocks	Max. 1,600 (per site)
Data storage period	Max. 2 year

- Personal computer system requirements (for electricity charge apportionment tool)

Personal computer system requirement	
Operating system	<ul style="list-style-type: none"> • Microsoft Windows 7 Home Premium (32-bit or 64-bit) SP1 • Microsoft Windows 7 Professional (32-bit or 64-bit) SP1 • Microsoft Windows 8.1 (32-bit or 64-bit) • Microsoft Windows 8.1 Pro (32-bit or 64-bit) • Microsoft Windows 10 Home (32-bit or 64-bit) • Microsoft Windows 10 Pro (32-bit or 64-bit) <p>Supported languages: English, Chinese, French, German, Russian, Spanish, and Polish</p>
CPU	Intel Core i3 2 GHz or higher
Memory	<ul style="list-style-type: none"> • 2 GB or more (for Windows 7 [32-bit]) • 4 GB or more (for Windows 7 [64-bit], Windows 8.1, and Windows 10)
HDD	40 GB or more of free space
Display	1,024 × 768 or higher resolution
Interface	<ul style="list-style-type: none"> • USB port • Ethernet port (to communicate with TPC via LAN)
Software	Adobe Reader 9.0 or later
Optical drive	DVD-ROM drive

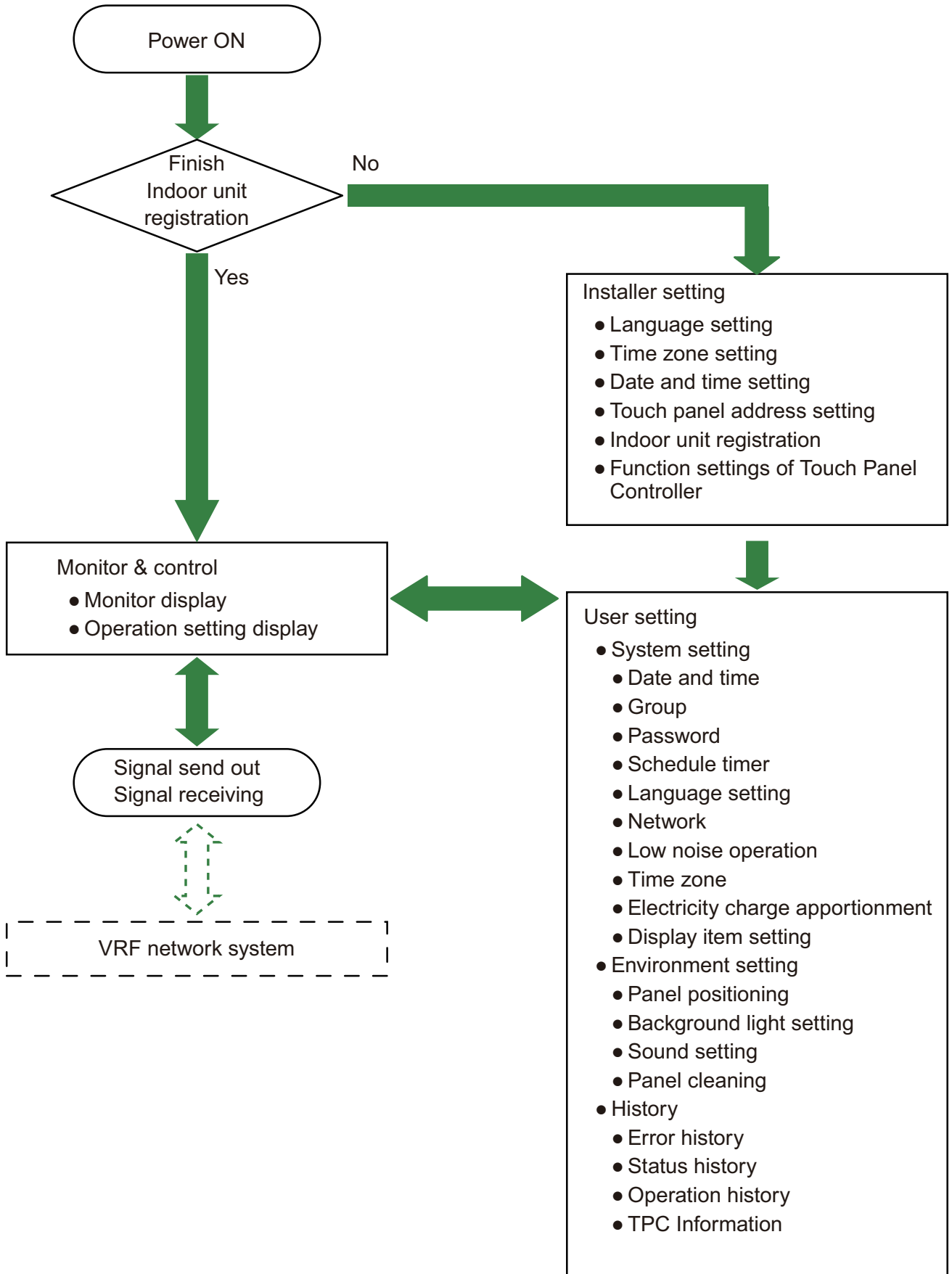
■ Functions

	Item	Main unit	PC/Tablet	Description
Installation	Indoor unit registration	●	—	Indoor unit registration. Max. 400 units. (Set data can be written to and read from USB flash drive)
	Function settings	●	—	Temperature set point limitation, external input, central operation on/off setting
Monitor	Display switching	●	●	Icon display, List display
	Display units	●	●	All, Group, Individual (remote control group)
	Monitor contents (icon display)	●	●	Group name, operation, operation mode, set temperature, time, errors, timer setting, filter sign
	Monitor contents (list display)	●	●	Group name, operation, operation mode, set temperature, airflow, air direction, special operation, anti-freeze, time, errors, timer setting, filter sign, room temp., human sensor, set temp. range
	Error list	●	●	Group name, remote control group name, address, error code
	Special state	●	●	Display during special operation
Control	Control units	●	●	All, Group, Individual (remote control group)
	Control contents	●	●	Operation, operation mode, set temperature, airflow, RC prohibition, filter sign reset
	Detailed control contents	●	●	Air direction, energy saving, anti-freeze, test run
	Individual setting reset of airflow direction	—	●	Sets the position of indoor unit's airflow direction louver individually.
	Human sensor	—	●	Sets the human sensor on the indoor unit.
	Setting temperature limitation of room	●	●	Adjusts the upper and lower limits of temperature for the indoor unit.
Setting	Language setting*	●	●	Design considering multi-language correspondence
	Date and time	●	●	Time display switching, year/month/day display switching, system clock setting, summer time, Internet time adjustment setting
	Time zone	●	●	Set the time zone of the area where this unit is used.
	Panel cleaning and correction	●	—	Select display area for panel cleaning. User can select black screen on display.
	Group	●	●	Stages: Max. 3 stages settable up to 400 groups. (Set data can be written to and read from USB flash drive.)
	Back ground light and beep sound	●	—	Backlighting off time and brightness setting, beep sound operation setting
	Password	●	—	Management level: 3 kinds
	Schedule timer	●	●	Max. 30 items settable
	Temperature range	●	—	Celsius/Fahrenheit switching, cooling, heating, and AUTO each settable
	Network	●	●	Function of Email notification for malfunction, or electricity charge apportionment option is used via LAN
	Low noise operation	●	●	"Low noise operation" is set to all outdoor units registered by this controller.
	Electricity charge apportionment (Option)	●	●	Start/stop of ECA, importing/exporting of ECA setting, and exporting ECA data.
	Remote language additional registration	—	●	Additional language can be integrated on remote device by creating language database. Additional language is displayed on only the remote device and touch panel controller cannot be added other language.
	Auto OFF timer	—	●	Function to stop the operation automatically when a preset time lapses after turning on the operation
	Set temperature auto return	—	●	Function to restore the temperature to the original set temperature when a preset time lapses after changing the set temperature.
	Display item setting	—	●	Sets the items to be displayed on the monitor.
	Failure notification Email	—	●	Failure notification Email: Sends a notification Email to the preset Email address in the event of failure.
	Remote connection setting	—	●	Create Users: Max. 15 users, type, permissions, unit setting, automatic logout time
Maintenance	Error history	●	●	Recording of max. 10 errors for each touch panel controller and each indoor and outdoor unit
	Status history	●	●	Recording of max. 100 operations for each indoor unit Writable to USB flash drive
	Operation history	●	●	Recording of max. 10,000 operations Writable to USB flash drive
	TPC information	●	●	Version history, TPC MAC address, software version, Writing the TPC information
Others	External input/output	●	—	Input: Batch operation/stop, emergency stop, electricity meter Output: Operation monitoring, error

NOTES:

- *: Product specifications are subject to change without notice.
- When Start/Stop, operation mode setting, room temp. setting, fan speed setting, air flow direction setting, swing setting, economy mode, and anti freeze setting are changed frequently by using the central controller such as System controller, Touch panel controller, etc. or from Building Management System (BMS) via BACnet gateway or via Network converter, the number of operations for each indoor unit must not exceed 7,500 times/year.
If the number of setting change exceeds the above specified number, the rewriting count limit of the non-volatile memory (built into the air conditioner and used for recording settings) will be exceeded, and may cause breakdown.

State transition diagram



■ Main functions and screen examples

- **Monitor display example**
An easy-to-use display mode can be selected.
Easy-to-understand GUI of adopted icon.

Icon display



List display



- **Operation mode setting example**
Large button is designed for easy to access.

Operation setting screen



Optional setting screen

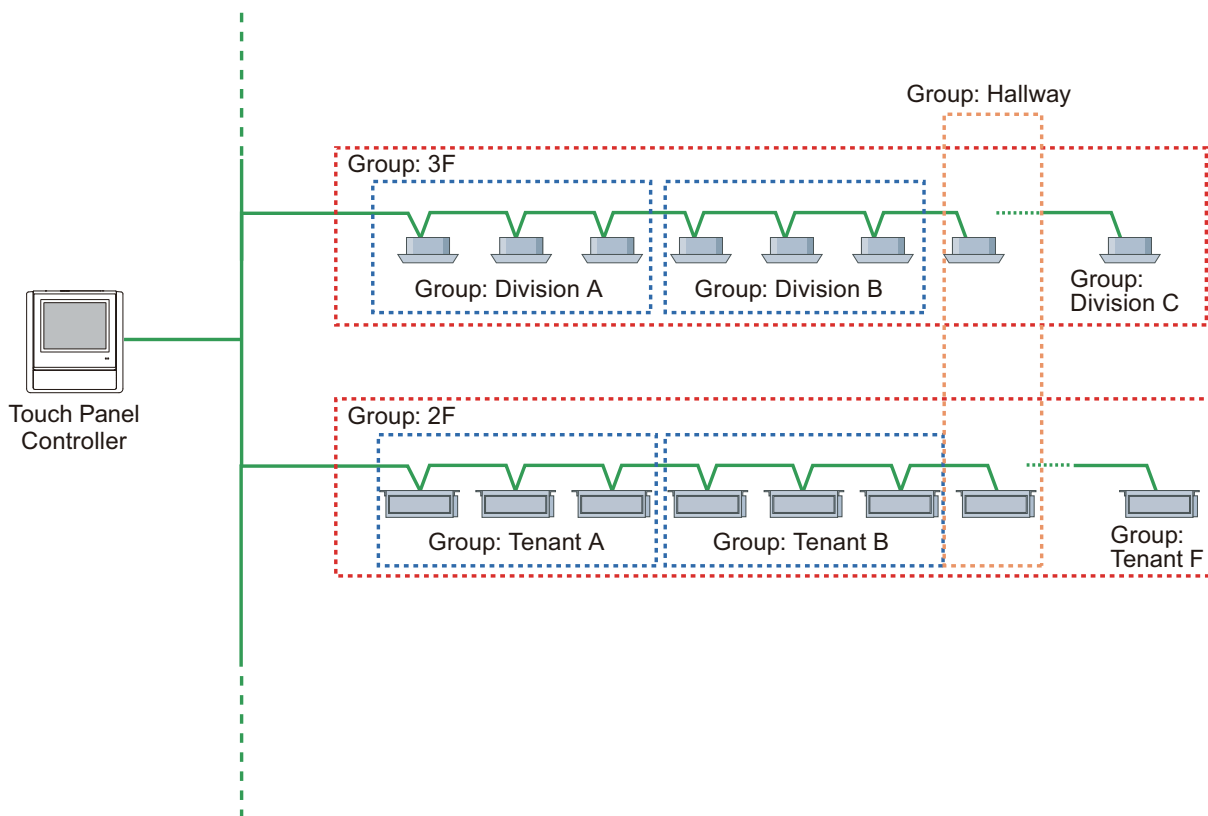


CONTROL SYSTEM

CONTROL SYSTEM

• **Group setting**

Groups can be arbitrarily set in easy to manage units as shown in the figure. Control and monitoring are performed in these group units.



Group setting screen



- **System schedule timer**

Annual schedule can be set of a maximum 30 items.

Schedule setting screen

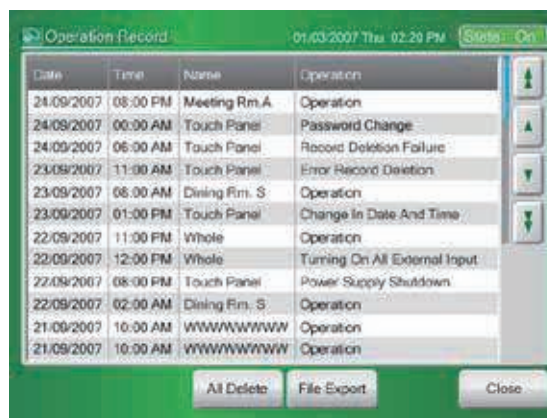


- **History recording and display**

Error, status and operation histories can be recorded. Each recording can be also written to USB flash drive.

- Error history: Max. 10 items recorded for each touch panel controller and each unit (indoor unit and outdoor unit).
- Status history: Max. 100 operations recorded for each indoor unit of each room.
- Operation history: Max. 100 operations recorded.

Optional history screen



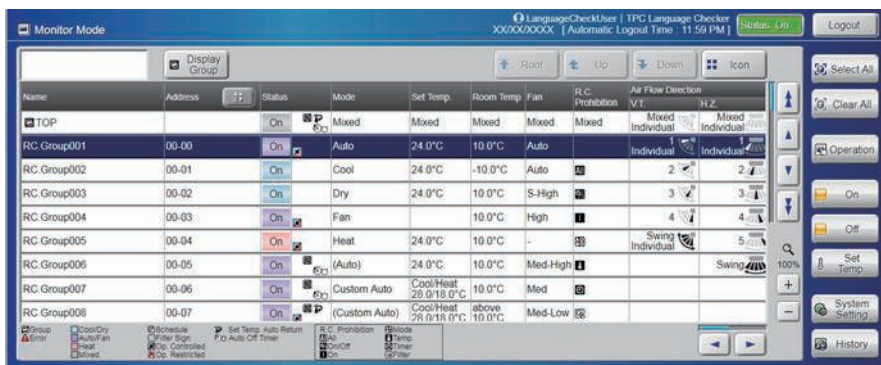
Screen examples (for remote monitoring)

- Monitor mode main screen example

Icon display



List display



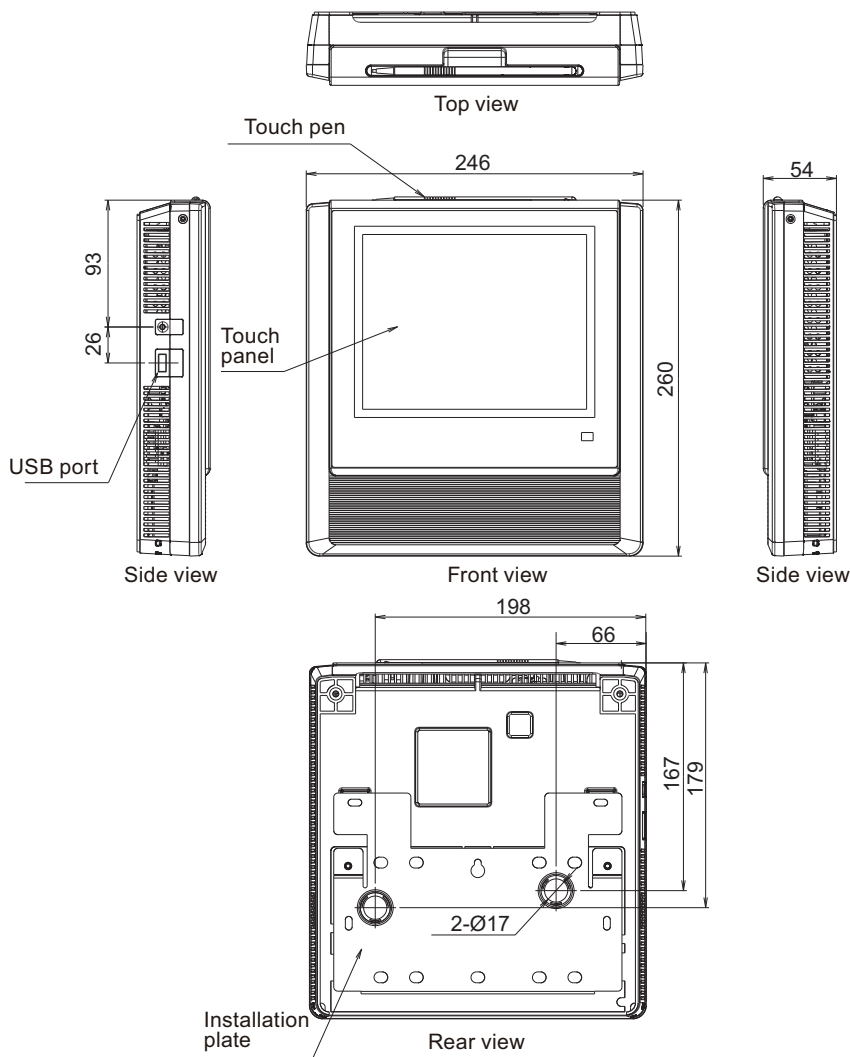
- Control main screen example

Operation setting screen



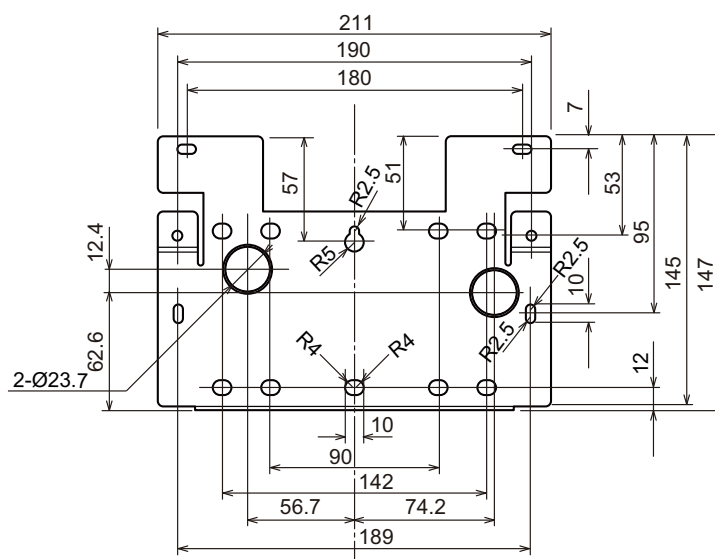
■ Dimensions

Unit: mm



■ Mounting plate screw hole positions

Unit: mm

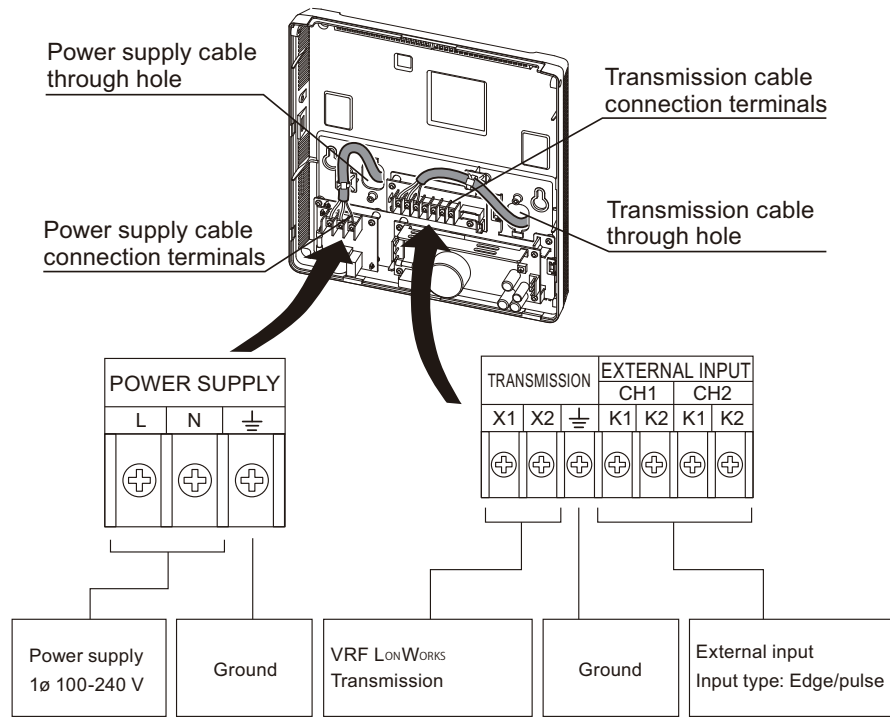


⚠ CAUTION

Refer to the mounting screw hole positions of the switch box that is to be installed in advance and check the compatibility.

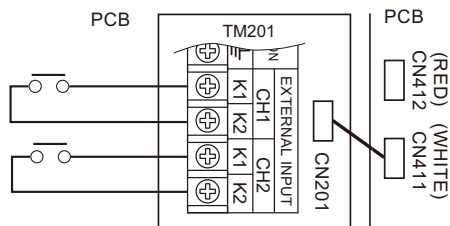
Terminal names

Names of connection terminals in rear cover.

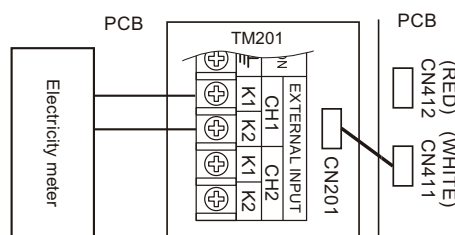


External input terminal

- Case 1: Batch start/stop and emergency stop commands



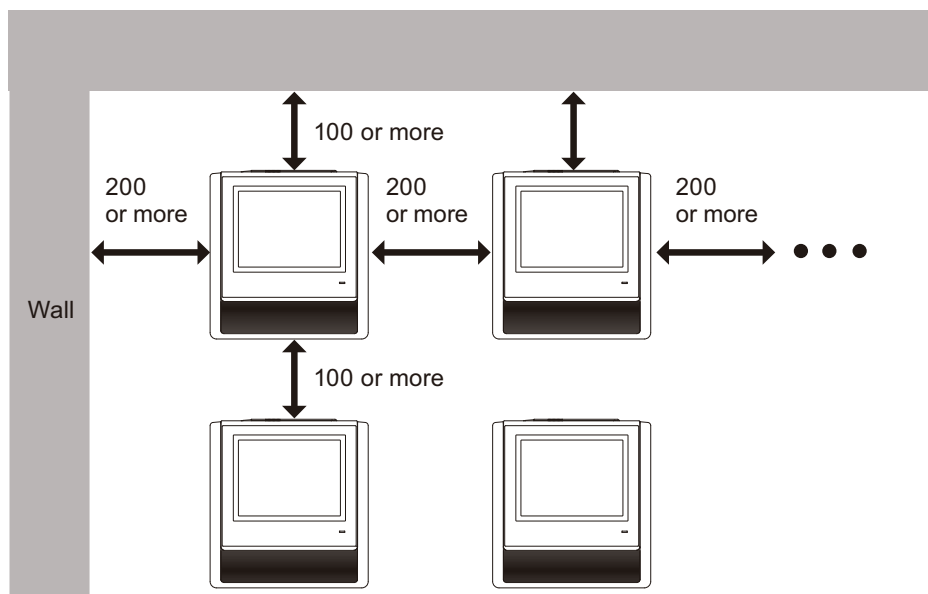
- Case 2: Electricity meter is connected



■ Installation space

When installing Touch panel controller in a row, keep the space shown below from the surrounding projecting parts.

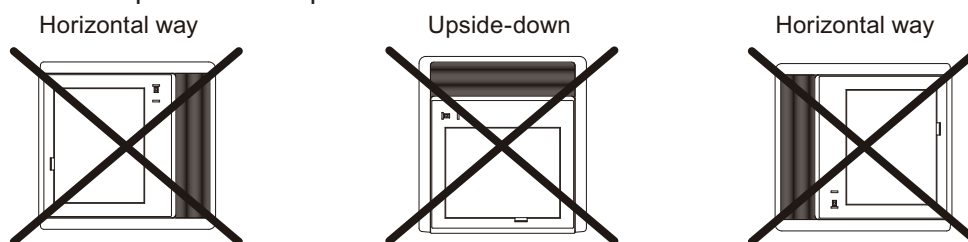
Unit: mm



NOTE: The switch box that Touch panel controller is to be mounted to should be installed horizontally in advance.

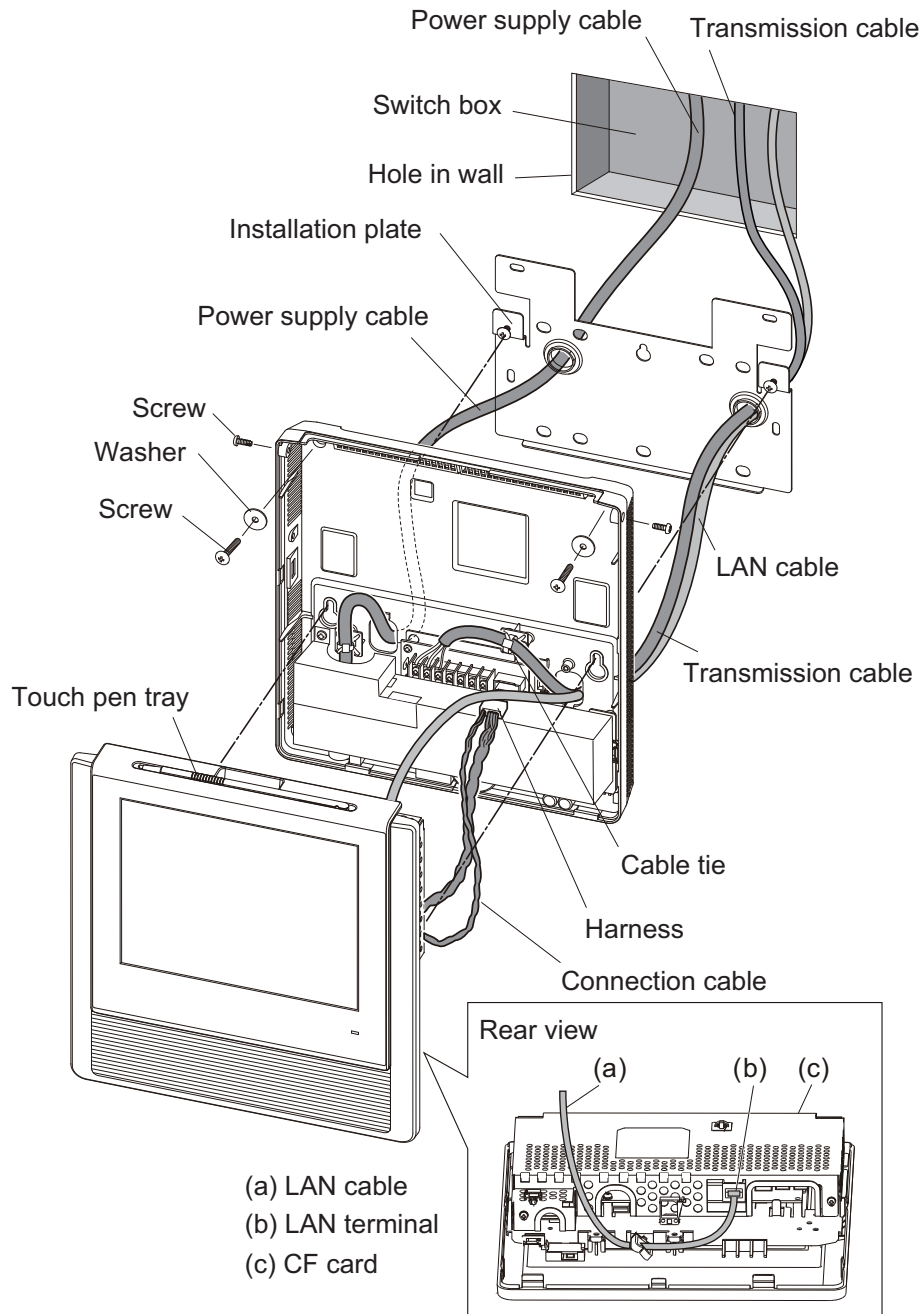
⚠ CAUTION

Following installation positions are prohibited:



■ Installation

For details, refer to installation manual.



⚠ CAUTION

In advance, install a switch box to the wall where Touch panel controller is to be installed.

■ Specifications

Power source voltage	V	1 Ø AC 100—240
Power source frequency	Hz	50/60
Input power	W	22
Display		7.5-inch TFT color LCD (640 × 480 pixels), with touch panel
LED indicator		Power LED (Green)
External interface		USB 2.0
		Transmission line
		Ethernet port (Ethernet port is required for remote connection using Internet.)
		External input: Either emergency stop, batch operation/stop, electricity meter (Either Dry contact or apply voltage can be selected.)
		External output: Operation state, error state
		Reset switch
Usage temperature range	°C	0 to 40
Usage humidity range	%	0 to 85 (no condensation)
Storage temperature range	°C	-20 to 70
Storage humidity range	%	0 to 85 (no condensation)
Dimensions (H × W × D)	mm	260 × 246 × 54
Weight	g	2,150
Fuse capacity	A	5

● Wiring specifications

Use	Cable size	Wire type	Remarks
Power supply cable	0.5—1.25 mm ²	60245 IEC 57 or equivalent	1 Ø AC 100—240 V 50/60 Hz, 2-wire + ground (Always ground the unit)
Transmission cable	0.33 mm ² (22 AWG)	LEVEL4 (NEMA) non-polar 2-core, twisted pair solid core shielded	LonWorks compatible cable
External input/output cable	0.33 mm ² (22 AWG)	Polar 2-core, twisted pair	Use cable in accordance with local rules for cable.

■ Other required devices (Locally purchased)

- Personal computer that satisfies the following system requirements

Personal computer system requirement	
CPU	2 GHz or higher
Memory	2 GB or more
HDD	10 GB or more of free space
Display	1,366 × 768 or higher resolution
Interface	<ul style="list-style-type: none"> USB port Ethernet port (Ethernet port is required for remote connection using Internet.)
Software	<ul style="list-style-type: none"> Microsoft Office Excel (2007, 2010, 2013, 2016), Microsoft Excel (2007, 2010, 2013) Adobe Reader 10.0 or later Internet Explorer 11