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)
المستحد 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
	1	
	1	
Operation manual		

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

CONTROL SYSTEM

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
	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)
Operating system	Microsoft Windows 10 Home (32-bit or 64-bit)
	Microsoft Windows 10 Pro (32-bit or 64-bit)
	Supported languages: English, Chinese, French, German, Russian, Spanish, and Polish
CPU	Intel Core i3 2 GHz or higher
Mamani	2 GB or more (for Windows 7 [32-bit])
wemory	• 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	USB port
	Ethernet port (to communicate with TPC via LAN)
Software	Adobe Reader 9.0 or later
Optical drive	DVD-ROM drive

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Functions

Item		Main unit	PC/Tablet	Description			
	Indoor unit registration	•	_	Indoor unit registration. Max. 400 units. (Set data can be written to and read from USB flash			
Installation		•		drive)			
	Function settings	•		Temperature set point limitation, external input, central operation on/off setting			
	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	Monitor contents (list display)	•		Group name, operation, operation mode, set temperature, airflow, air direction, special opera-			
	monitor contents (list display)	•		rande			
	Error list	•	•	Group name, remote control group name, address, error code			
	Special state	•	•	Display during special operation			
	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			
Control	Individual setting reset of airflow direc-		•	Sets the position of indeer unit's airflow direction lower individually			
	tion						
	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.			
	Language setting*	•	•	Design considering multi-language correspondence			
	Date and time	•	•	I me 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			
Setting	Low noise operation	٠	•	"Low noise operation" is set to all outdoor units registered by this controller.			
	Electricity charge apportionment (Op- tion)	•	•	Start/stop of ECA, importing/exporting of ECA setting, and exporting ECA data.			
	Remote language additional registra- tion	_	•	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			
	Error history	•	•	Recording of max. 10 errors for each touch panel controller and each indoor and outdoor unit			
Maintenance	Status history	•	•	Recording of max. 100 operations for each indoor unit Writable to USB flash drive			
maintenance	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			
Othere	External input/output			Input: Batch operation/stop, emergency stop, electricity meter			
Others	External Input/output	•	_	Output: Operation monitoring, error			

NOTES:

CONTROL SYSTEM

• *: 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



• TPC Information

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



• Operation mode setting example Large button is designed for easy to access. List display



Optional setting screen



Operation setting screen



Group setting

ROL

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

ROL

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 hisotry: Max. 100 operations recorded.

Operatio	n Record		01.03/2007 The 02.20 PM				
Cale :		NUMBER	Operation	T			
24/09/2007	08:00 PM	Meeting Rm.A	Operation	1			
24/09/2007	00:00 AM	Touch Panel	Password Change				
24/09/2007	06:00 AM	Touch Panel	Record Deletion Failure	8			
23/09/2007	11:00 AM	Touch Panel	Error Record Deletion	1			
23/09/2007	06.00 AM	Dining Rm. S	Operation	в			
23/09/2007	01:00 PM	Touch Panel	Change In Date And Time	H			
22/09/2007	11:00 FM	Whole	Operation				
22/09/2007	12:00 FM	Whole	Turning On All External Input				
22/09/2007	08:00 FM	Touch Panel	Power Supply Shutdown				
22/09/2007	02.00 AM	Dining Rm. S	Operation				
21/09/2007	10:00 AM	www.www	Operation				
21/09/2007	10:00 AM	wwwwwww	Operation				

All Delete File Export

Close

Optional history screen

Screen examples (for remote monitoring)

Monitor mode main screen example

Icon display

🖾 Monitor Mode						O Languaget	CheckUser TPC Lan Automatic Logout Tim	guage Checker Statu 10 11:59 PM]	s On	Logout
		Displ Grou	ay ip			T Root	E Up] 3 D	own		Select A
Ch Stand	RC Group(01 8Auto 24.0°C	RC. Group002	RC Group003 On \$24.0°C	RC Group004	RC Group005	RC Group006 On 22(Auto) \$ 24 0°C	RC.Group007 On State 28 C. Auto 26 0/5 0/C	<u>t</u>	Clear A
RC Group008	RC Group0	09 19 10 19 (C. Auto) 18 0/18 6*C	RC Group010 On B Stran	RC Group011	RC Group012	RC.GroupD13	RC Group014	RC Group015 On Bal Streat \$26.0°C	×	Coperation 1997
RC Group016	RC Group0	117 500000 85Fan 8	RC Group018 On SAuto 8 26 0*C	RC Group019 On \$\$Auto \$26.0°C	RC.Group020	RC. Group021	RC Group022	RC Group023 On StHeat \$26.0°C	Ŧ	On Of
RC Group024	RC Group0	125 Mini SFan	RC Group026	RC Group027 On 5 48(Auto) 1 26.0°C	RC Group028	RC. Group029 On 28(Auto) 126 0*0	RC Group030	RC.Group031 On Dis X (Auto) 8 26 0°C	Q 100%	8 Set Temp
RC Group032 On Ball	RC Group(133 58881	RC Group034	RC Group035	RC.Group036 On SCool	RC Group037	RC Group038 On Steat	RC Group039 On S X	+	System Setting
CoolOry	Dreat Bide	hedule	200 Controlled 2010 200 Restricted 8 Set	xe Terro						B History

List display

Monitor Mode							xxxxx	Language	CheckUser Automatic L	TPC Language ogout Time 11	Checker 59 PM Status	On		Logout
	Display Group						*	Root:	2 Up	Down	Icon		1	Select All
Name	Address		Status		Mode	Set Temp.	Room Temp	Fan	R.C. Prohibition	Air Flow Directio	n HZ	1	6	Clear All
TOP 1			On	BP Or	Mixed	Mixed	Mixed	Mixed	Mixed	Mixed Individual	Mixed Individual	H		
RC.Group001	00-00		On		Auto	24.0°C	10.0°C	Auto		Individual	Individual			Operation
RC Group002	00-01		On		Cool	24.0°C	-10.0°C	Auto	9	2 💌	2 7			
RC.Group003	00-02		On		Dry	24.0°C	10.0°C	S-High	2	3 1	3 4			On
RC.Group004	00-03		On	8	Fan		10.0°C	High	0	4 1	4.4			
RC Group005	00-04		Ón		Heat	24.0°C	10.0°C	22	88	Swing W	5	0		Off.
RC.Group006	00-05		On	8	(Auto)	24.0°C	10.0°C	Med-High	0		Swing	100%	B	Set Temp
RC.Group007	00-06		On		Custom Auto	Cool/Heat 28.0/18.0*C	10.0°C	Med	0			+		
RC Group008	00-07		On	a NP	(Custom Auto)	Cool/Heat 28 0/18 0°C	above 10.0°C	Med-Low	12			-	0	System Setting
AEmir CostOry AEmir Heat Host	Officient Sign Concontrolled Concontrolled	Set Term to Auto Of 1	Auto Ref		C Prohibition RBMo Al DTH On/Cit DTH On GPT	de tro Mer Br			-19452		• •		8	History

Control main screen example

Operation setting screen

	RC Groupb	61					
01	Auto	24.0'C 🗸	Auto		A	05	0
2017		1	860		Dirich .	OF 1	04
	DY	E	A.L.		P II DUT	Inst Openador	Fare Tept
	(Far)	- A	4	THE BOOK	for	Reset
kenesimu)	(Heat.)	Rent Street		-	P. Nop	Special Bal	
Cartan I		Low			Coltent)		
Canada				Induktail	ATT A DESCRIPTION		
Crards	-	112000000		10000000			

CONTROL

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Dimensions

Unit: mm



Mounting plate screw hole positions

Unit: mm



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

CONTROL

Terminal names

Names of connection terminals in rear cover.



External input terminal

TROL

• 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.



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

ROL



Unit: mm

Installation

For details, refer to installation manual.



TROL

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)			
		USB 2.0			
		Transmission line			
		Ethernet port			
		(Ethernet port is required for remote connection using Internet.)			
External interface		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

ITROL TEM

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) GB or more of free space						
Display	,366 × 768 or higher resolution						
	USB port						
Interface	 Ethernet port (Ethernet port is required for remote connection using Internet.) 						
Software	 Microsoft Office Excel (2007, 2010, 2013, 2016), Microsoft Excel (2007, 2010, 2013) Adaba Baadar 10.0 er later 						
	Adobe Reader 10.0 of later Internet Explorer 11						