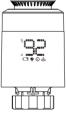
SEA802-Z30 INSTRUCTION

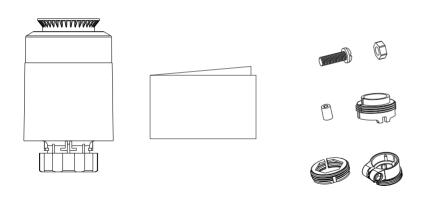
OPERATING INSTRUCTION

SEA802-Z30



Δ,

What is in the box?



Content

TRV Introduction	01
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TRV specifications

* Power source: 2AA battery (Don't use the rechargeable battery)

* Battery lifetime: 1year

* Temperature setting accuracy: 0.5°C

* Room temperature display range: 0°C~50°C

* Operation temperature range: 5°C~30°C

* Shipping & storage temperature: -10°C~60°C

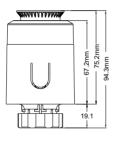
* Frequency: 2.4GHz

* Wireless transmit range: Open distance 30M

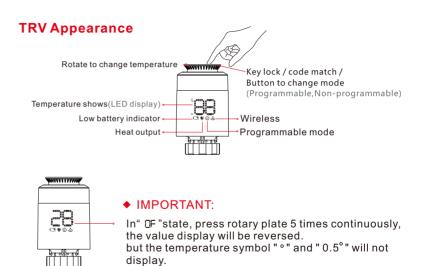
* Display: LED screen

* IP class: IP21

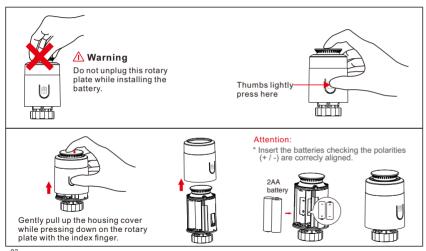
* Connection: M30x1.5mm







Schematic diagram of battery installation

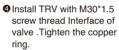


TRV Installation

Put battery in battery compartment









Once valve

needle is flush

with the base.



2 Display show "LA" flashing.



• Press button on rotary plate lightly, it would flash "LA" TRV will match valve stroke, if match succefully, will active initial setting.

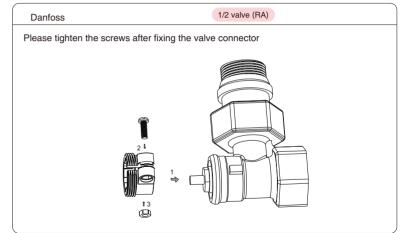


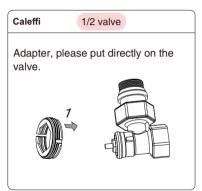
Adapter Selection

Pls confirm valve diameter

Danfoss	Caleffi	Giacomini
1/2 valve (RA)	1/2 valve	1/2 valve + short plunger

Adapter Installation







Notice for use

U ON/OFF

The temperature < 5°C, display "OF". The temperature > 30°C, display "Oo"

Open window function

When use radiator to heating , the window is opened ,when room temperature drop $6^{\circ}C$ in 4 minutes , TRV will close valve automatic,disply will show "gp" , When window is closed , meanwhile room temperature increase 2°C , TRV will open valve automatic , back to operation mode .

Anti-scale function

If radiator not open within two weeks or long time not open will let valve clogged as scale, radiator will be damaged. In order to let radiator to use normally, TRV will open valave running 30 seconds every two weeks, display will show "Ra", when run finished will recovery running condition.

Ohild lock function

In order to prevent TRV setting from children, it could activate child lock functin by long press rotary plate until display show" LE ". Long press rotary plate again over 10s to unlock

* Anti-freezing function

In the power off state, the screen show "\"\" anti-freezing function: the valve will be opened when the temperature is below $5^{\circ}C$, when the temperature risees to $8^{\circ}C$, the valve will be closed.

Ӓ Alarm

In the normal operation range: NTC sensor damage, display: &~

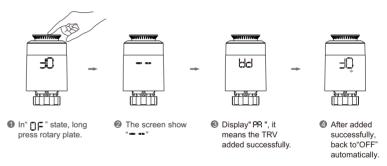
Low power alarm

When the battery voltage is extremely low , display the alarm symbol $\ \blacksquare\$, which remind that the user shall replace battery.

Temporarily override

When in programming mode , if you want to change the current programming temperature manually , please rotate the rotary plate to adjust the temperature you want to set , and the temperature will remain until the current programming time end of the period.

Distribution network



* Tips

Gateway must be added before adding TRV.

Before binding the gateway, you need to power on the gateway.
When binding a gateway, the mobile phone and the gateway must connect to the same network.

L	Mode	Cluster name	Cluster ID	name	Commands type	Commands ID	Attribute name	Attribute ID		zigbee Module	Note	Mode	Cluster name	Cluster ID	Commands name	Commands type	Commands ID		Attribute ID		zigbee Module	Note	
	Programming data			Current Weekly Schedule	Cluster	0x00	/	/	Server→ Client			VALVE OUTPUT			Report attributes	GLOBAL	0x0A	pi heating demand	8000x0	Server→ Client			
	(Monday-Sunday) (Report)			Default Response	GLOBAL	0x0B	/	/	Client→ Server		Number of Transitions for	Percentage(Report)			Default Response	GLOBAL	0x0B	/	/	Client→ Server			
Ī	Programming data			Set Weekly Schedule	Cluster	0x01	/	/	Client→ Server	Server	Sequence value 4;	VALVE OUTPUT			Read Attributes	GLOBAL	0x00	pi heating demand	8000x0	Client→ Server	Server		
	(Monday-Sunday) (Write)			Default Response		0x0B	/	/	Server→ Client]	Mode for Sequence value:1	Percentage(Read)			Read Attributes Responsee	GLOBAL	0x01	Pi heating demand	8000x0	Server→ Client			
	Programming data			Schedule	Cluster	0x02	/	/	Client→ Server			Current Temperature			Report attributes	GLOBAL	0x0A	Local temperature	0x0000	Server→ Client			
	(Monday-Sunday) (Read)				Cluster	0×00	/	/	Server→ Client			(Report)			Default Response	GLOBAL	0x0B	/	/	Client→ Server			
ŀ		HVAC	Thermostat (0x0201)	Schedule			Thermostat					Current Temperature	HVAC	Thermostat (0x0201)	Report attributes	GLOBAL	0×00	Local temperature	0x0000	Client→ Server			
	Programming Switch (on/off)(Report)			Report attributes	GLOBAL		programming operation mode	0x0025	Ollotti			(Read)			Read Attributes Response	GLOBAL	0x01	Local temperature	0x0000	Server→ Client		None	
				Default Response	GLOBAL	0x0B	/	/	Client→ Server						Кезропас			occupied heating					
	Programming Switch (on/off)(WRITE)			Write Attributes	GLOBAL	0x02	Thermostat programming operation mode	0x0025	Client→ Server	Server	bit0	Setting Temperature (Report)			Report attributes	GLOBAL	0x0A	setpoint	0x0012 0x0014	Server→ Client	Server		
				Default Response	GLOBAL	0x0B	/	/	Server→ Client		0:0FF, 1:ON				Default Response	GLOBAL	0x0B	/	/	Client→ Server			
	Programming Mode Switch(on/off)(Read)			Read Attributes	GLOBAL	0x00	Thermostat programming operation mode	0x0025	Client→ Server			Setting Temperature (Write)			Write Attributes	GLOBAL	0x02		0x0012 0x0014				
11	switch(on/on)(iteau)			Read Attributes Response	GLOBAL	UXUI	Thermostat programming operation mode	0x0025	Server→ Client			(write)			Default Response	GLOBAL	0x0B	setpoint /	I	Server→ Client			12

Mode	Cluster name	Cluster ID		Commands type	Commands ID	name	Attribute ID		zigbee Module	Note		Mode	Cluster name	Cluster ID	Commands name	Commands type	Commands ID	Attribute name	Attribute ID		zigbee Module	Note
Setting Temperature			$\overline{}$	GLOBAL	0x00	Occupied heating setpoint	0x0012	Client→ Server				Away Mode			Read Attributes	GLOBAL	0x00	thermostat programming	0x0025	Client→ Server		bit2: 0 OFF.
(Read)			Read Attributes Response	GLOBAL	0x01	unoccupied heating setpoint	0x0014	Server→ Client				(Read)			Read Attributes Response	GLOBAL		operation mode		Server→ Client		1 ON
Temperature Calibration(Report)			Report attributes	GLOBAL	0x0A	Local temperature calibration	0x0010	Server→ Client	Server	Number of		ON State(100% valve			Report attributes	GLOBAL		system mode	0x001C	Server→ Client		
Calibration(Report)			Default Response	GLOBAL	0x0B	/	/	Client→ Server		Transitions for	open)(Report)			Default Response	GLOBAL	0x0B	/	/	/ Client→ Server			
Temperature			Write Attributes	GLOBAL	0x02	Local temperature calibration	0x0010	Client→ Server		Sequence value 4 ; Mode for		ON State(100% valve			Write Attributes	GLOBAL	0x02	system mode	0x001C	Client→ Server		0x00OFF
Calibration(Write)		T1	Default Response	GLOBAL	0x0B	/	/	Server→ Client		Sequence value:1		open)(Write)			Default Response	GLOBAL	0x0B	/	/	Server→ Client		0x05 ON; TRV displays
Temperature	HVAC	Thermostat (0x0201)	Read attributes	GLOBAL	0x00	Local		Client→ Server				ON State(100% valve	HVAC	Thermostat (0x0201)	Read Attributes	GLOBAL	0x00	system mode	0x001C	Client→ Server		ON
Calibration(Read)	(0,0201)		Read Attributes Response	GLOBAL	temperature (0x0010 calibration aclibration Course	0x01			Server→ Client	Server												
Away Mode(Report)			Report attributes	GLOBAL	0x0A	Thermostat programming operation mode	0x0025	Server→ Client	Server			Child Lock(Report)			Report attributes	GLOBAL	0x0A	kaypad lockout	0x0001	Server→ Client		
			Default Response	GLOBAL	0x0B	/	/	Client→ Server		bit2: 0 OFF.				Thermostat User Interface	Default Response	GLOBAL	0x0B	/	/	Client→ Server		None
Away Mode(Write)			Write Attributes	GLOBAL	0x02	Thermostat programming operation mode	0x0025	Client→ Server		1 ON		Child Lock(Write)		Configuration (0x0204)	Write Attributes	GLOBAL		kaypad lockout	0x0001	Client→ Server		
			Default Response	GLOBAL	0x0B	/	/	Server→ Client							Default Response	GLOBAL	0x0B	/	/	Server→ Client		

	Mode	Cluster name	Cluster ID	Commands name	Commands type	Commands ID		Attribute ID		zigbee Module	Note
			Thermostat User Interface	Read Attributes	GLOBAL	0x00	kaypad		Client→ Server		
	Child Lock(Read)	HVAC	Configuration (0x0204)	Read Attributes Response	GLOBAL	0x01	lockout	0x0001	Server→ Client		
	on/off(Report)			Report attributes	GLOBAL	0x0A	on/off	0x0000	Server→ Client	Server	
				Default Response	GLOBAL	0x0B	/	/	Client→ Server		
	on/off(Write)		On/off	On Off	Cluster	0x01 0x00	/	/	Client→ Server		
			(0x0006)	Default Response	GLOBAL	0x0A	/	/	Server→ Client		
	(-#/P1)			Read Attributes	GLOBAL	0x00		0×0000	Client→ Server		None
	on/off(Read)	General		Read Attributes Response	GLOBAL	0x01	on/off	0x0000	Server→ Client		None
	Battery Power Percentage(Report)			Report attributes	GLOBAL	0x0A	battery percentage remaining	0x0021	Server→ Client	Server	
			Power Configuration (0x0001)	Default Response	GLOBAL	0x0B	/	/	Client→ Server		
	Battery Power		(0x0001)	Read Attributes	GLOBAL	0x00	battery percentage	0x0021	Client→ Server		
15	Percentage(Read)			Read Attributes Response	GLOBAL	0x01	remaining	0.0021	Server→ Client		

Commanda Commanda Auditata Auditata Bata

Mode	Cluster name	Cluster ID		Commands type	Commands ID	Attribute name	Attribute ID		zigbee Module	Note
Battery Power			Report attributes	GLOBAL	0x0A	Battery alarm mask	0x0035	Server→ Client		
Alarm (Report)		Power	Default Response	GLOBAL	0x0B	/	/	Client→ Server		
]	Configuration (0x0001)	Read Attributes	GLOBAL	0x00	Battery		Client→ Server	Server	None
Batter Power Alarm (Read)	General		Read Attributes Response	GLOBAL	0x01	alarm mask	0x0035	Server→ Client		
System Time Sync	General	Time	Report attributes	GLOBAL	0x0A	Local time	0x0007	Server→ Client		
(Report)			Write Attributes	GLOBAL	0x02	Local time	0x0007	Client→ Server		
System Time Sync (Read)		(0x000A)	Read Attributes	GLOBAL	0x00		0x0007	Client→ Server		
			Read Attributes	GLOBAL	0x01	Local time	UXUUU7	Server→ Client		

Endpoint: 0x01, device id: 0x0301 Protocol: zigbee 3.0 standard protocol