

Electronic timeswitch

RWB27Si



To control combination boilers and single zone applications together with the appropriate thermostat.

- Unique menu-driven programming
- Easy-to-read, large backlit display
- Universal programming: daily, weekday/weekend, 7-day
- Holiday programming
- 2/3 ON/OFFs
- Up to three-hour boost
- Clock with auto summer/winter changeover
- Selectable time formats: 12-hour and 24-hour
- Ideal for combination boilers
- Industry standard backplate
- Battery back-up
- Service interval reminder

Use

The RWB27Si electronic timeswitch is designed to control combination boilers and single zone applications together with the appropriate thermostat.

Functions

Service interval reminder function

The boiler service interval reminder function complies with Regulation 36 of the Gas Safety (Installation and Use) Regulations 1998, requiring landlords to carry out a safety check at intervals of no more than 12 months.

- If the function is enabled, a message is displayed on screen, informing you about the number of days remaining until the next boiler service is due, up to 50 days prior to the actual service date (the prewarning period is set by the engineer, default is 50 days).
- If the message "SERVICE DUE SYSTEM OFF" is displayed, it means that the system is turned OFF. For your safety, you should contact an engineer to service the boiler as quickly as possible.

Note: The boiler can still be used to obtain basic services for a limited time by pressing the + hrs button.

Mechanical design

The unit consists of the following parts:

- Plastic housing with electronics (inputs, outputs), operating elements (HMI) and DIP switches
- An industry standard backplate with screws

Operation and settings



Type summary

Product number	Stock number	Description
RWB27Si	BPZ:RWB27SI	Electronic timeswitch

Delivery

When ordering, indicate the product number, stock number and description.

Equipment combinations

Description	Product number	Data sheet*)
Room thermostat	RAA21...	N3562

*) The documents can be downloaded from <http://siemens.com/bt/download>.

Product documentation


Topic	Title	Document ID
Installation and commissioning	RWB27Si Installation instructions	A6V10464889
Operating instruction	RWB27Si operating instructions	A6V10464933
Standards and directives	CE declarations	8000078264
Environmental compatibility	Environmental declarations	A6V101118378

Related documents such as environmental declarations, CE declarations, etc., can be downloaded at the following Internet address:


<http://siemens.com/bt/download>

Notes


Security

	⚠ CAUTION
	National safety regulations Failure to comply with national safety regulations may result in personal injury and property damage <ul style="list-style-type: none">• Observe national provisions and comply with the appropriate safety regulations.

Mounting

	NOTICE
	<ul style="list-style-type: none">• Do not install the unit where either extremes of heat or cold exist.• Steam, water or oil cannot splash onto or enter the unit or its backplate.

Installation

	NOTICE
	<ul style="list-style-type: none">• All external wiring must comply with current IEE regulations.• Only competent electricians may wire this unit.• Do not use this unit to control immersion heaters.• Comply with local regulations to wire, protect and earth the unit.



⚠ WARNING

No internal line protection for supply lines to external consumers

Risk of fire and injury due to short circuits!

- Adapt the line diameters as per local regulations to the rated value of the installed over-current protection device.
- The AC 230 V mains supply must have an external circuit breaker with a rated current of no more than 3 A.

Commissioning

Programming mode

The RWB has 3 programming modes:

- Daily: The unit will switch ON and OFF at the same times each day.
- Weekday/Weekend: The schedule can be changed for weekdays and weekends.
- 7-Day: The unit can be set to switch ON and OFF differently every day or any day.

Note:

The RWB is factory-set to provide two ON/OFF switching periods per day, and each day is the same, i.e. daily operation. To select other types of switching, set the DIP switches to the relevant position for the type of operation required (see **DIP switches** below for more information), and then press **RESET**.

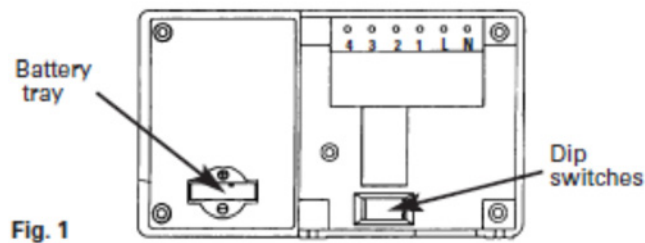


NOTICE







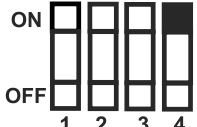
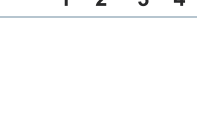

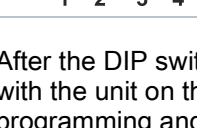
Press **RESET** after any DIP switch change.

DIP switches

The DIP switches are located at the rear bottom of the unit (see Fig. 1).



To change the DIP switch positions, switch off the mains supply, then remove the unit from its backplate by simply loosening the two screws and pulling them towards you.

Programme choice with DIP# 1, 2, 3		ON/OFF switching periods with DIP# 4	
ON  OFF  1 2 3 4	Daily	ON  OFF  1 2 3 4	Two ON/OFF periods per day
ON  OFF  1 2 3 4	Weekday/ Weekend	ON  OFF  1 2 3 4	Three ON/OFF periods per day
ON  OFF  1 2 3 4	7-Day		

After the DIP switch changes, put the unit back onto its backplate. Then see the leaflet supplied with the unit on the programme you selected: daily programming, weekday/weekend programming and 7-day programming.

Time format

RWB27Si can display the time in 24- or 12-hour format, with 24 hours as factory setting. To change the format, press the RESET button on the front of the unit, and set to the desired option.

Maintenance

The unit is designed for maintenance-free operation.

Disposal



The device is considered an electronics device for disposal in terms of European Directive 2012/19/EU and may not be disposed of as domestic garbage.

- Dispose of the device through channels provided for this purpose.
- Comply with all local and currently applicable laws and regulations.

Warranty

Technical data on specific applications are valid only together with Siemens products listed under "Equipment combinations". Siemens rejects any and all warranties in the event that third-party products are used.

Technical data

Power supply		
Operating voltage	AC 230 V	
Switching voltage	AC 12...240 V	
Frequency	50 Hz	
Power consumption	50 mA	
Backup battery	Type	CR2032 lithium battery
	Life	Min. 3 years



Max. external supply line fusing: 3 A

Outputs	
Contact rating	- Resistive: max. 6 A - Inductive: max. 2 A

Environmental conditions	
Moisture and dust ingress	IP20
Operating humidity	20...80% r.h., 90% r.h. non-condensing
Operating ambient temperature	0...40 °C
Storage ambient temperature	-20...54.5 °C

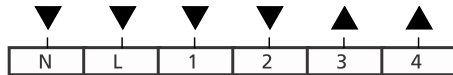
Standards, directives and approvals	
EU conformity (CE)	8000078264 *)
Safety class	as EN60730-2-7 standard
Housing	as IEC 730 standard
Environmental compatibility	The product environmental declaration (A6V101118378) contains data on environmentally compatible product design and assessments (RoHS compliance, materials composition, packaging, environmental benefit, disposal).

*) The documents can be downloaded from <http://siemens.com/bt/download>.

General	
Connection terminals	2.0 mm dia.
Housing	Fire retardant, ABS material
Weight without/with packaging	240 g/335 g

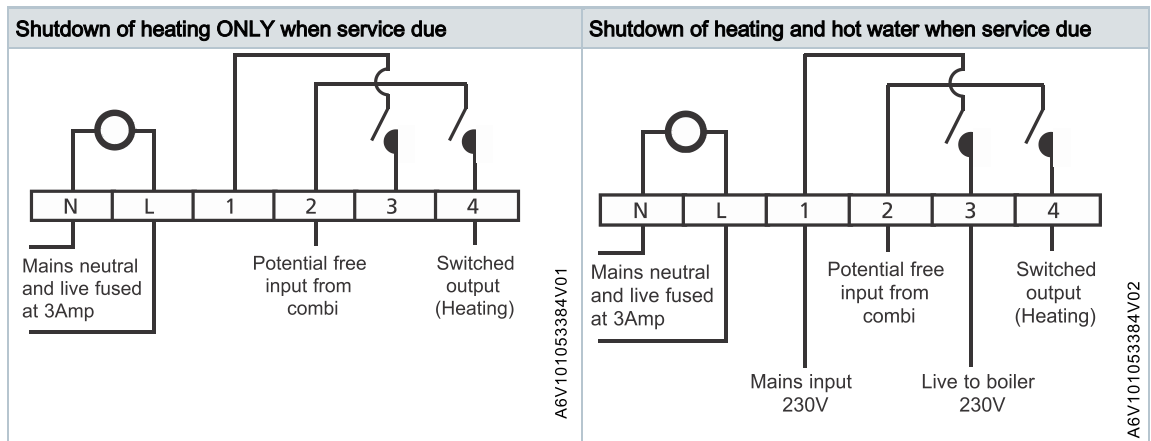
Diagrams

Connection terminals



- L Live, AC 230 V
- N Neutral, AC 230 V
- 1 Switching input, hot water (HW)
- 2 Switching input, central heating (CH)
- 3 Switching output, hot water (HW), normally open (NO), voltage-free contact
- 4 Switching output, hot water (CH), normally open (NO), voltage-free contact

Wiring diagrams



Note:

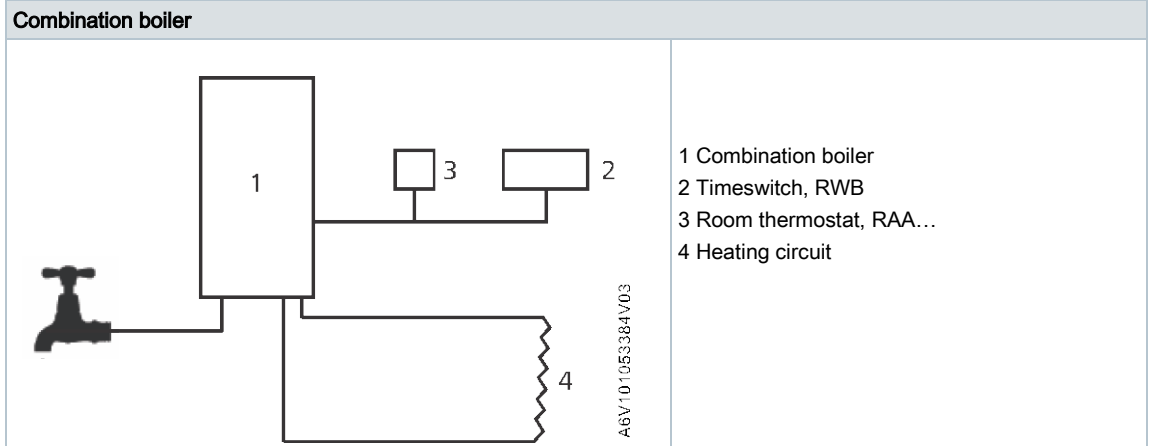
- If AC 230 V direct mains switching is required, link L to 2.
- The voltage applied to terminal 2 is switched to terminal 4 when RWB is in the ON position.
- If wiring up as Service Interval Reminder for a combi-boiler, a new backplate supplied must be used.



⚠ WARNING

The mains supply must be isolated before replacing an existing timeswitch.
Failure to do so may cause damage to the RWB and will invalidate any warranty claims.

Application examples



Dimensions

