

RWB9 Programmer

Programming for daily operation
(ie same times each day)

NB: These units are not suitable for control of immersion heaters.

Installation and configuration

1. First remove the backplate from the RWB9 by undoing the two small screws at the base of the unit and lift out from the bottom so that the two lugs at the top disengage from their positions. Turn unit over and dip switches and battery tray are on reverse. Select operating style with dip switches refer to section 8.

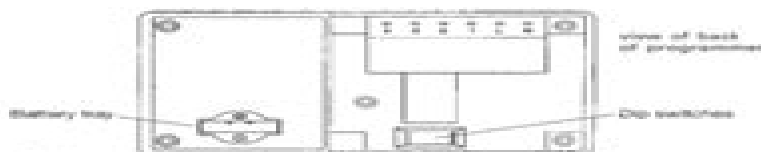


Fig. 1

Technical Data RWB9

Supply	200/240V 50 Hz
Power consumption	50 mW
Contact rating	6A resistive 2A inductive, Total switching 10 amps
Ambient temperature range	0 to 40°C
Environmental humidity	90% RH
Housing	Fire-retardant ABS material

2. Mounting location

To ensure convenience of use, the RWB9 should be fitted in a position which allows easy access. It is recommended that the unit is placed at a height of 1.4 metres from the floor, and should not be installed where either extremes of heat or cold exist. Care should also be taken to ensure that steam, water or oil cannot splash onto or enter either the RWB9 or its backplate.

3. Backplate

The RWB9 is supplied with the industry standard backplate to which the system must be wired. The backplate can be fitted directly to the wall or onto a conduit box. Only conduit boxes which comply with BS1363 or BS4602 (single gang) should be used.

4. Programmer internal wiring diagrams



The mains supply must be isolated before replacing an existing programmer, failure to do so could cause damage to the RWB9 and will invalidate all warranty claims.

Line voltage is present on terminals 3 and 4 when the programmer is in the ON position for Hot Water (HW) and Central Heating (CH), and on terminals 1 and 2 when it is in the OFF position. Terminals N, L, 1, 2, 3 and 4 connect the controls for hot water and central heating applications. (For more information see separate wiring and interchange sheet).

Note: All external wiring must comply with current IEE regulations. Wiring of this unit should be carried out by a qualified electrician. Whilst every effort is made to ensure the accuracy of the instructions given, discrepancies may occur due to a variety of reasons outside our control. If, after wiring your system, you should find that it does not work properly you should:

- Check you have used the correct wiring system and wired it correspondingly.
- Check with the Technical Help line - there may be a simple explanation.

(Technical Help Line: 01952 602048 Mon - Fri 9am - 5pm)

5. Prior to installing onto the backplate, insert the battery into the battery tray (see Fig. 1) and ensure that positive + and negative - are correctly installed. The battery is a non-rechargeable lithium cell and in the event of power failure will protect your programme instructions for up to 365 continuous days of power loss.

6. Next select the mode of system control, ie gravity, hot water with pumped radiator circuit (10 mode) in this case it is not possible to have heating only, or fully pumped with either mid position or zone valves controlling the circulation (16 mode). Please note the factory setting is 16 mode, to alter this simply move dip switch no. 5 down to the 10 setting.

7. The RWB9 is factory set to provide 2 on/off switching times per day in the 16 (fully pumped) mode and each day will be the same, ie daily operation. To select the other styles of switching you will have to alter the dip switches which are to be found at the bottom rear of the unit into the relevant position for the style of operation you require.

NB: Press RESET after any dip switch change, using ball point pen or similar.

RESET button will be found on the front of the unit under the flap.

8. Your operation styles are:

RWB9	Dip switch configurations				
Please note that for styles position of dip switch no. 5 will be: 16 (fully pumped) 10 mode, dip switch 1 and 1 on, 2 to 4 down. Daily with 2 on/off switching per 24 hr period (factory setting).	1	2	3	4	5
Daily with 3 on/off switching per 24 hr period.					
16 mode (fully pumped HW & CH).					
16 mode (gravity HW pumped CH).					

Black area shows position of switches.

9. Once you have completed the above you are ready to connect the RWB9 to the backplate.

When replacing a Landis & Gyr or Landis & Staefa product as listed below, no wiring changes are required (except RWB20 backplate which may require the addition of a neutral connection).

RWB1, RWB2, RWB20, RWB40, RWB100, RWB200, RWB200c, RWB252, RWB252c, RWB270, RWB300, Gloworm Mastermind, Potterton Minimind, Sankey Sundline.

10. Fitting the unit to the backplate

With the backplate installed and the dip switches positioned for your style of operation you can now locate the programmer onto its backplate. Tilt the bottom of the case away from the wall, locate the two slots in the top of the case over the two tabs at the top of the backplate. Push the bottom of the case towards the wall, slotting the two backplate screws into the bottom of the case and tighten the screws. Turn the power on, the display will then be lit and indicator lights will flash momentarily, you are now ready to commence programming.

Present factory settings:

2 on/off 6.30 am to 8.30 am and 4.30 pm to 10.30 pm

3 on/off 6.30 am to 8.30 am, 12.00 pm to 2 pm and 4.30 pm to 10.30 pm

The above times are the same for all operating styles.

Siemens Rwb9 Programmer Manual

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Siemens Rwb9 Programmer Manual:

Quick Start to Programming in Siemens Step 7 (TIA Portal), 2nd Edition David Deeg,Jon Stenerson,2019-03-27 We saw the need for a quick start book on Siemens Step 7 programming Two additional chapters have been added to the second edition There is a step by step chapter on creating a project The coverage of project organization provides the basis for a good understanding of programming and project organization Linear and modular programming are covered to provide the basis for an understanding of how an S7 project is organized and how it functions The book covers ladder logic and Function Block Diagram FBD programming There is In depth coverage of ladder logic timers counters math special instructions and function blocks Wiring and use of I O modules for various PLC models is covered Sinking sourcing and the wiring of digital and analog modules are covered Quick Start to Programming in Siemens Step 7 (Tia Portal) Jon Stenerson,David Deeg,2015-08-01 This book Is intended to meet the need for an easy to understand book that can quickly get the reader up and programming with Siemens Step 7 The book includes a link to download a trial version of Siemens Step 7 TIA Portal software We wanted the book to be practical and also have breadth and depth of coverage We also wanted it to be affordable for readers There are many practical explanations and examples to illustrate and ease learning There is a step by step appendix on creating a project to ease the learning curve The coverage of project organization provides the basis for a good understanding of programming and project organization Linear and modular programming are covered to provide the basis for an understanding of how a Step 7 project is organized and how it functions The book covers ladder logic and Function Block Diagram FBD programming There is In depth coverage of ladder logic timers counters math special instructions and function blocks There is also a chapter that features a step by step coverage on how to create a working HMI application There are extensive questions and exercises for each chapter to guide and aide learning The book includes answers to selected chapter questions and programming exercises **Siemens Nixdorf PCD-B Family** Siemens Nixdorf,1991

Siemens Operating System BS 2000: System Controller's Guide: Reference Manual ,1978 **Siemens System 4004** ,1973 **The JOSHUA (J80) System Programmer's Manual** ,1993 The JOSHUA system routines JS routines can be used to manage a JOSHUA data base and execute JOSHUA modules on VAX VMS and IBM MVS computer systems This manual provides instructions for using the JS routines and information about the internal data structures and logic used by the routines It is intended for use primarily by JOSHUA systems programmers however advanced applications programmers may also find it useful The JS routines are as far as possible written in ANSI FORTRAN 77 so that they are easily maintainable and easily portable to different computer systems Nevertheless the JOSHUA system provides features that are not available in ANSI FORTRAN 77 notably dynamic module execution and a data base of named variable length unformatted records so some parts of the routines are coded in nonstandard FORTRAN or assembler as a last resort In most cases the nonstandard sections of code are different for each computer system To make it easy for programmers using the JS routines

to avoid naming conflicts the JS routines and common block all have six character names that begin with the characters
open_quotes JS close_quotes Before using this manual one should be familiar with the JOSHUA system as described in
open_quotes The JOSHUA Users Manual close_quotes ANSI FORTRAN 77 and at least one of the computer systems for which
the JS routines have been implemented *Siemens Operating System BS 2000: System Controller's Guide: Reference
Manual* ,1978 **Siemens Operating System BS 2000: Utility Routines: Reference Manual** ,1978 **Siemens
system 7.000: Siemens system 4004: Operating system BS 1000 : Data management system (DMS):Reference
manual** ,1978 **Simula Programmer's Guide** Universität. Mannheim. Rechenzentrum,1978

The Enigmatic Realm of **Siemens Rwb9 Programmer Manual**: Unleashing the Language is Inner Magic

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