

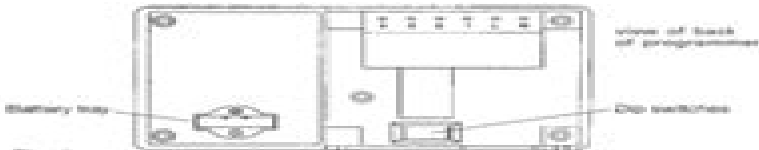
## RWB9 Programmer

Programming for daily operation  
(ie same times each day)

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

## Installation and configuration

1. First remove the backplate from the PWB9 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.



1000

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|                           |                                                    |
|---------------------------|----------------------------------------------------|
| Supply                    | 200V/240V 50 Hz                                    |
| Power consumption         | 50 mW                                              |
| Contact rating            | 6A inductive 2A inductive. Total switching 10 amps |
| Ambient temperature range | 0 to 40°C                                          |
| Environmental humidity    | 80% RH                                             |
| Housing                   | Flame-retardant ABS material                       |

## 2. Mounting location

To ensure convenience of use, the FRV89 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 FRV89 or its backplate.

20 <http://www.buyside.com>

The RRVBS 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 BS4692 (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 RWHB 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 IEEE 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 Field) Line: CHSOL 602048 5.500 - Fin Stem - Sprawl

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.

4. 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 6d mode, to alter this simply move dip switch no. 5 down to the 10 setting.

2. The RW500 is factory set to provide 2 on/off switching times per day in the 1d (fully pumped) mode and each day will be the same, i.e. 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:

| ENV-89                                                                                                                              | Dig switch configurations |   |   |   |   |
|-------------------------------------------------------------------------------------------------------------------------------------|---------------------------|---|---|---|---|
| Plasma-type (also has plasma position of dig switch, no data with test ENV-89) and 18 modes, dig switch 1 and 2 are, if the 4 shown | 1                         | 2 | 3 | 4 | 5 |
| Chilly with 2 connect (switching) pair (24 for parallel factory setting).                                                           |                           |   |   |   |   |
| Chilly with 3 connect (switching) pair (24 for parallel).                                                                           |                           |   |   |   |   |
| 18 mode (fully pumped ENV & CH).                                                                                                    |                           |   |   |   |   |
| 18 mode (gravity ENV pumped) CH.                                                                                                    |                           |   |   |   |   |

Black area shows position of switches.

9. Once you have completed the above you are ready to connect the RAY29 to the backplate.

When replacing a Landis & Gyr or Landis & Staefa product as listed below, no wiring changes are required (except R41820 backplate which may require the addition of a neutral connection).

RVB1, RVB2, RVB20, RVB40, RVB200, RVB200cwk, RVB252, RVB252cwk, RVB270, RVB320: Gloworm Mastermind, Potterton Miniminder, Sanku Sunline.

## 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.

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2:00pm 6:30 am to 6:30 am and 4:30 pm to 10:30 pm

• If cutoff = 6.360 acres for 6.360 acres, 12.000 acres for 2 acres and 4.360 acres for 10.360 acres

These address formats are the same for all operating systems.

# Rwb9 Programmer Manual

**Liying Dong**



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**Programmer's Manual** The MacNEAL-Schwendler Corp,1983      Programmer's Manual M. J. Anderson,S. Levy Incorporated,1988      **Programmer's Manual for Revision 5.0** ,1994      **The N-BOD1 User's and Programmer's Manual** ,1978      *Ratfor Programmer's Manual* David R. Hanson,1981      **Programmer Manual: Urban Information System Version 1.0** ,1976      **D-116 Programmer's Manual** Digital Computer Controls,1973      Programmer's Manual ,1993      **Soldier's Manual** United States. Department of the Army,1977      Programmer's Manual Kambiz Movassaghi,John A. Brewer,1972      *RT-11 Programmer's Reference Manual* Digital Equipment Corporation,1983      1130 Scientific Subroutine Package Programmer's Manual International Business Machines Corporation. Data Processing Division,1970      **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      **1130 scientific subroutine package** ,1970      User's and Programmer's Manual of the RCTA Package Jordi Castro Pérez,José Antonio González,Daniel Baena Mirabete,Universitat Politècnica de Catalunya. Departament d'Estadística i Investigació Operativa,2009      **Programmer's Reference Manual** Texas Instruments Asia Ltd,      **1130 Scientific Subroutine Package Programmer's Manual Program Number 1130-CM-O2X.** ,      *1130 Scientific Subroutine Package (1130-CM02X)* International Business Machines Corporation,1968      **Programmer's Manual** J. F. Jamison,1969      *1130 scientific subroutine package* ,1968

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web 1 answer sorted by 0 update this has been made even easier with cdfplot matlab r2019a example data x wblrnd 2 3 50000 1 y wblrnd 3 2 50000 1 z wblrnd 2 5 2 5 50000 1 data x y z figure hold on for k 1 size data 2 h k cdfplot data k end legend show

**gamma cumulative distribution function matlab gamcdf** - Feb 26 2022

web the gamma cdf is  $p(x \leq a) = \frac{\Gamma(a)}{\Gamma(a) \Gamma(b)} \int_0^a t^{a-1} e^{-t} dt$  the result  $p$  is the probability that a single observation from a gamma distribution with parameters  $a$  and  $b$  falls in the interval  $0 \leq x \leq a$  the gamma cdf is related to *geometric cumulative distribution function matlab geocdf* - Apr 30 2022

web the geometric distribution is discrete existing only on the nonnegative integers the cumulative distribution function cdf

of the geometric distribution is  $y = f(x, p) = (1-p)^{x-1} p$  where  $p$  is the probability of success and  $x$  is the number of failures before the first success

*f cumulative distribution function matlab fcdf mathworks* - Mar 30 2022

web description `p_fcdf(x, v1, v2)` computes the f cdf at each of the values in  $x$  using the corresponding numerator degrees of freedom  $v1$  and denominator degrees of freedom  $v2$   $x$ ,  $v1$  and  $v2$  can be vectors matrices or multidimensional arrays that are all the same size

**cumulative distribution function matlab cdf mathworks** - Aug 15 2023

web define the input vector  $x$  to contain the values at which to calculate the cdf `x = 0 1 2 3 4` compute the cdf values for the poisson distribution at the values in  $x$  `y = cdfpd(x, y1, 5, 0.1353, 0.4060, 0.6767, 0.8571, 0.9473)` each value in  $y$

**using matlab how can i find the integral of a bounded cdf** - Jun 01 2022

web jun 8 2013 using matlab i am trying to find the integral of a bounded range of a cdf please refer to the following code `u = 1:s; x = randn(1, 10000); pd = makedist('normal', mu, u, sigma, s); xaxis = min(x, 0.001); max_x = cdf(pd, xaxis); r = icdf(pd, 3/6); plot(xaxis, c, pd)`

**import cdf files using high level functions matlab** - Oct 05 2022

web may 10 2010 read all data from cdf file use the `cdfread` function to read all of the data in the cdf file `data = cdfread('example.cdf')` whos data name size bytes class attributes `data` 24x6 23904 cell `cdfread` returns the data in a cell array the columns of data correspond to the variables the rows correspond to the records associated with a variable

**normal cumulative distribution function matlab normcdf** - Jun 13 2023

web to use `cdf` create a normaldistribution probability distribution object and pass the object as an input argument or specify the probability distribution name and its parameters note that the distribution specific function `normcdf` is faster than the generic function `cdf`

**matlab generate and plot the empirical joint pdf and cdf stack overflow** - Sep 04 2022

web feb 12 2017 matlab r2015b includes an `histogram2` function that does all the work it automatically does the normalization to obtain the pdf given the appropriate input flag or even the cdf using the same example as above clear all data example `x = randn(1, 1e5)` random variables `y = randn(1, 1e5)` `x` axis 3 2 3 define edges of

*to be removed complementary cumulative matlab* - Jan 28 2022

web description `ccdfcomm(ccdf)` creates a ccdf measurement system object example `ccdfcomm(ccdf, 'name', 'value', 'sets')` properties using one or more name value arguments for example `comm(ccdf, 'numpoints', 2000)` creates a ccdf measurement object with 2000 ccdf points properties expand all

**matlab cumulative distribution function cdf stack overflow** - Dec 07 2022

web the implementation in matlab is something like this `map c cdf norm map c 0 1` which is suppose to be the equalization of the histogram from `map c` the problem comes at the moment of translating it into `c` due to the lack of decimals i have [empirical cumulative distribution function matlab ecdf](#) - Feb 09 2023

web compute the empirical cumulative distribution function cdf for data and create a piecewise linear distribution object using an approximation to the empirical cdf load the sample data visualize the patient weight data using a histogram

**read data from common data format cdf file matlab cdfread** - Jan 08 2023

web data cdfread filename reads all the data from the common data format cdf file specified by filename specify filename as a string scalar or character vector cdf data sets typically contain a set of variables of a specific data

[empirical cumulative distribution function cdf plot matlab cdfplot](#) - Jul 14 2023

web description example cdfplot x creates an empirical cumulative distribution function cdf plot for the data in x for a value t in x the empirical cdf  $f(t)$  is the proportion of the values in x less than or equal to t h cdfplot x returns a handle of the empirical cdf plot line object

*import cdf files using low level functions matlab* - Jul 02 2022

web this example shows how to use low level functions to read data from a cdf file the matlab low level cdf functions correspond to routines in the cdf c api library to use the matlab cdf low level functions effectively you must be familiar with the cdf c

**how to make a cdf from a histogram in matlab stack overflow** - Mar 10 2023

web apr 3 2016 2 answers sorted by 3 the most straightforward way to create a cumulative distribution from data is to generate an empirical cdf the ecdf can do this directly by default this doesn't require one to produce a histogram

*cdf how to compute the cumulative distribution function of an* - May 12 2023

web aug 9 2014 1 i need to compute the cumulative distribution function of an image i normalized the values using the following code `im = imread('cameraman.tif'); im_hist = imhist(im, tf); cumsum_im_hist = transformation_function(tf, norm(tf, 'max', 'tf')); plot(tf, norm_axis_tight)`

**cdfplot file exchange matlab central mathworks** - Apr 11 2023

web feb 3 2004 cdfplot x displays a plot of the empirical cumulative distribution function cdf of the input array x in the current figure the empirical cdf  $y = f(x)$  is defined as the proportion of x values less than or equal to x if input x is a matrix then cdfplot x parses it to the vector and displays cdf of all values

**how to plot cdf in matlab tutorial youtube** - Nov 06 2022

web feb 4 2021 this video describe the basics of a popular distribution and shows the coding simulation for cdf cumulative distribution function in matlab

**cumulative distribution function matlab cdf mathworks** - Dec 27 2021

web define the input vector x to contain the values at which to calculate the cdf x = [-2 1 0 1 2] compute the cdf values for the normal distribution with the mean  $\mu$  equal to 1 and the standard deviation  $\sigma$  equal to 5 mu = 1 sigma = 5 y = cdf normal x mu sigma

y = 1.5027 430.3446 0.4207 0.5000 0.5793