



quickguide

CONTENT

From DCM SISTEMES box, you will get the following items:



- Controller of one output of 6A, with an input of pulse wide and programmable pulse from 0µ to 10ms in steps of 4µs. Programming via RS-232 stored in non-volatile memory.
- System requirements: Computer with serial Port.
- A User's manual is available at www.dcmsistemes.com

QUICK START

The proceeding for using VST11I for the first time is the following:

CAUTION

- Please, we recommend that you read carefully the instructions before installing the VST11.
- Step 1. Wire up VST11I strobe controller.
- Step 2. Connect the PC through Null Modem DB9 cable to VST111 and assure the strobe controller is powered on.
- Step 3. Configure parameters of the strobe (Pulse Width recommended). Two options allowed: User mode or programming mode.
 - Щ Note: Programming mode set by default. To change it into the User mode, you must send the text string 'mode' in order to access the command menu.

Step 4. Connect the lamp and start using VST11I.

Щ Note: Before installing a new lamp after first usage follow these steps from the beginning.

🚓 Step 1. WIRING

No.M025A08

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COMPONENTS

Ref. VST11I

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VST11I SPECIFICATIONS

- Dimensions (mm): 90x75x103.
- Power: +24VDC. 1A Large capacity of condensers, in order to delivery enough power when activated
- Outputs: 1
- Type of outputs: Open drain MOSFET. +24VDC common.
- Up to 6A per output.
- Inputs: 1, common ground, NPN or PNP with pull down resistor Voltage range from OVDC to +24VDC. Negative or Positive edge triggei
- Input impedance: 38K ohms
- Up to 2500 triggers per second.
- Pulse width range: 0µS...10mS.
- Minimum step for pulse width: 4µS.
- Adjustment of initial delay: 0uS...131mS.
- Low dissipation needed
- PC or PLC connection Serial Communication.
- Housing material: Polycarbonate PC-F fiber reinforced. Inflammability class VO (UL94). Color: black.
- Anchorage for 35mm DIN type rail mount regulator.





Ū Note: Outputs OUT+ are permanently supplying +24VDC. Outputs OUT- are put to ground (GND) when activated, and driven to high impedance when deactivated.

Щ Note: Connectors' pinout is also on the strobe controller label.

🐁 Step 2. PC CONNECTION

VST RS-232 Terminal Cable (SUBD-9 MALE): PIN Signal description:





Every time you start the strobe controller, communications are by de fault in short mode (programming mode), suitable for communication with PLCs or specific programs such as in VB. In this mode, the strobe only returns an echo of the received and the programmed value.

To change this into a more friendly control mode for a person from a terminal emulator, you must send the text string 'mode' to enter in a menu that gives more information on each available command. Extended information on both modes on reverse.







Programming mode (by default)

User mode

 \mathbb{N} CAUTION

Do NOT put together the grounds of the power supply and the trigger supply. It could produce false triggers.

DECLARATION OF CONFORMITY

DCM SISTEMES, declares under our responsibility the conformity of the ng DCM SISTEMES iBlueDrive B

s in conformity with the following European Directives: 2014/35/EU (LVD) - Low Voltage Directive 2014/30/EU (ENC) - Electromagnetic Compatibility Directive 2011/65/EU (RoHS) - Restriction of Hazardous Substances 2012/19/UE (WEEE) - Waste electrical and electronic equipment incruise di

The conformity of the designated product(s) with the provisions of the European Directives is given by the compliance with the following European Standard(s) or other specifications. If not elsewhere/otherwise indicated the edition/amendment as referenced below applies: - EN 62471:2008 - EN 61000-3-3:2013 - EN 162 6505:2019 - EN 61000-3-2:2014



losé Murcia Rubio Engineering Ma





Valencia, January 2021.

WARRANTY CONDITIONS

The Manufacturer's Guarantee is a separate, additional guarantee which The Manufacture's obtaining to a separate, additional guarantee winkin does not affect the consumer's legal rights and is specifically issued for the customer and the appliance which it accompanies. The Manufacturer's Guarantee is valid for one year from the date of re-ceipt of the appliance, and covers all repairs which may be carried out by the Official Technical Assistance Service.

the Official Technical Assistance Service. In the cases covered by this guarantee, the holder will be entitled to the re-pair of any original flaws or defects free of charge. If the repairs carried out are not satisfactory, and the appliance is not in optimum condition for the use for which it is intended, the holder of the guarantee shall be entit-led to replacement of the appliance acquired by another of identical cha-racteristics. The replacement appliance will be covered by the remaining guarantee on the original appliance, in any case this shall be **six months**.

EXCLUSIONS FROM THE GUARANTEE

The following are excluded from this Guarantee. In these cases the total repair cost will correspond to the user: a) Breakdown caused by improper use of the appliance by the consu-

mer. b) Breakdown caused by unforeseeable circumstances, force major. (at-mospheric or geological conditions) or natural disaster. c) Interventions deriving from improper installation or lack of mainte-nance. d) Periodical maintenance operations carried out on the product.

e) Wear or deterioration of the appliance caused by use

CANCELLATION OF THE GUARANTEE.

This Guarantee shall be null and woid and without effect if the appliance has been interfered with, modified or repaired by any unauthorized person or technical service other than the Official Technical Assistance Service.

Very important: to benefit from this guarantee, it is absolutely essential for the user to provide the authorized technical service with an official re-ceipt giving evidence of the date of purchase. All our service technicians carry the corresponding identification accrediting them as Official Brand Technical Service (Service) and Service (Service) and Service (Service) and Service (Service) and Service) and Service (Service) and Service (Service) and Service (Service) and Service) and Service (Service) and Service) and Service (Service) and Service) and Service) and Service (Service) and Service) Technicians.

It is in your own interest to ask to see this identification. Consult your distributor or check in the enclosed documentation for the address of the nearest technical service. This Guarantee shall only be valid within the European Union and shall refer exclusively to the appliance referred to and supplied by DCM Sistemes. In other countries, the guarantee shall be is-sued in accordance with the laws in force in each case.



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Step 3. CONFIGURATING: User & programming mode

User mode

This mode allows usage from any software able to establish a serial communication in text mode.

Configure your User window with the next parameters:

Flow control	None	Data Bits	8
Communication speed	9600 bps	Parity Bits	None
Starting Bits	1	Stopping Bits	1

Connect VST11I strobe controller and write 'mode'. You will receive the following command Menu:

STROBE CONTROLLER ©2013 Copyright DCM SISTEMES™ Model VST11I - SW v1.90

v	Show Selected Pulse Width	t	Set delay Time	
u	To increase Pulse Width	e	Show delay Time	
d	To decrease Pulse Width	c	Set trigger edge	
p	p Set new Pulse Width f		Show trigger edge	
?	Command Menu			

v.- SHOW SELECTED PULSE WIDTH



x is therefore the value between 0 and 2500 of the output.

u.- INCREASE PULSE WIDTH / d.- DECREASE PULSE WIDTH

Up/Down the pulse width in steps of 1.

New pulse width = (x*4)uS

x is therefore the value between 0 and 2500 of the output.

New value [0...2500] & press [ENTER].

t.- SET DELAY TIME

Used to change the initial time of delay in steps of 2uS. Range between 0us...131ms.

New value [0...65535] & press [ENTER].

e.- SHOW DELAY TIME

Show the time of delay set.



x is therefore the value between 0 and 65535.

SET TRIGGER EDGE Allows the trigger edge to be changed when there is a rise or a fall in power level.

Set trigger edge (rise/fall) (a/b)* =

 * Introduce a for an increase in the input trigger and b for activating the trigger when the input falls.

4 Step 4. READY TO USE

After configuration, connect the lamps and start using VST11I.



f.- SHOW TRIGGER EDGE

Show the status of the edge in the selected output.

Rise edge (1) if it is ascent Fall edge (0) if it is descent.

- ?.- COMMAND MENU: Shows the command menu.
- The procedure for configurating the lamps via User mode is the following:

Step 1. SET THE DESIRED PULSE WIDTH

Go inside p.- Set the new pulse width, where the following will appear: New value [0...2500]. Introduce the new value and press [ENTER].

Ũ Note: To program a width of 4ms write **p1000** and press [ENTER] To see which is the previously selected pulse width, go inside v.- Show selected pulse width.

Ŵ Note: For directly increasing the pulse width in steps of 4uS, go inside u.- Increase pulse width. For directly decreasing do the proper with d.- Decrease pulse width.

Step 2. SET THE DELAY TIME

Used to change the initial time of delay in steps of 2uS. Go inside t.- Set delay time, where the following will appear: New value [0...65535]. Introduce the new value and press [ENTER]

Note: To remove the delay time, write t0 and press [ENTER]. To see the programmed delay time, go inside e.- Show delay time.

Step 3. CHOOSE THE DESIRED TRIGGER EDGE

Go inside c.- Set trigger edge, where the following will appear: Set trigger edge (rise/fall) (a/b)? '. Introduce a for selecting the rise edge and b for activating the trigger when the input falls. Press [ENTER]

 $\label{eq:Note: To see the status of the edge in the selected output, go inside f.-Show trigger edge. if it is ascent 'Rise edge (1)' will$ appear and 'Fall edge (0)' if it is descent.

Programming mode (by default)

This mode of configurating is used to program devices.

The usage is the same as the User mode, with the same commands but without the strings requesting or replying the value.

i.e.: If the u command is introduced, the system will respond with an x, where x is the value of the device pulse width.

TROUBLESHOOTING

This information is to help you quickly solve a problem. Before requesting service, please check the list below

STATUS POSSIBLE PROBLEM		SOLUTION
 Running LED indicator stopped blinking. 	PC Serial Port is wrong.	Try with another Serial Port.
 Running LED indicator stopped blinking. 	Serial Wire is wrong.	Try with another Serial Wire (discarded).
 Running LED indicator stopped blinking. 	Serial input transceiver of the strobe controller is wrong (burned by some electrical shock).	Send it to us for repairing. Try with another Strobe controller.

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