

INSTALLATION AND MAINTENANCE INSTRUCTIONS DIGITAL TIMERS D-LUX

GENERAL

- These instructions must be carefully read before any work involving products supplied by VALSTEAM ADCA ENGINEERING S.A. is undertaken.
- The installation procedure is a critical stage in a life of equipment and care should be taken to avoid damage to it.
- They give their maximum performance only when the equipment associated with them is correctly sized and installed in accordance with our recommendations.

Note:

- Current regional safety regulations should be take in to account and followed, while doing the installation and maintenance work.
- Handling, installation and maintenance work must be carried out by trained personnel. A supervisor must follow and check all activities.
- For the problems that cannot be solve with the help of this instructions, please contact the supplier or the manufacturer.
- The manufacturer reserves the right to change the design and material of this product without notice.



ATTENTION

- The equipments must be used within the working temperature and pressure limits laid down for them, otherwise they may fail (refer to nameplate).
- Do not remove the nameplate attached to the equipment. Serial number and other useful information is stamped on it.
- Take proper measures to prevent unintentional operation of the product or damage to it.
- Before starting maintenance be sure that the equipment and lines are not pressurized or hot.
- Manual handling of products may present a risk of injury. You are advised to assess the risks taking into account the task, the individual, the load and the working environment.
- Before starting work ensure that you have suitable tools and/or consumables available.
- Always turn off the voltage supply before working on the system.
- This product was designed for use exclusively with types of fluids or gases as stated in its documentation.
- Correct installation of the equipment is full responsibility of the contractor.

TRANSPORT AND STORAGE



ATTENTION

- The manufacturer doesn't assume the responsibility of damaged equipments due to inappropriate handling during the transportation and storage.

INSTALLATION



ATTENTION

- For the problems that cannot be solve with the help of this instructions, please contact the supplier or the manufacturer.

Installation area requirements:

- The installation area should have easy access and provide enough space for maintenance and removing operations.

Electric installation:

1. Unpack the unit and visually inspect for any transport damage incurred after leaving our factory.



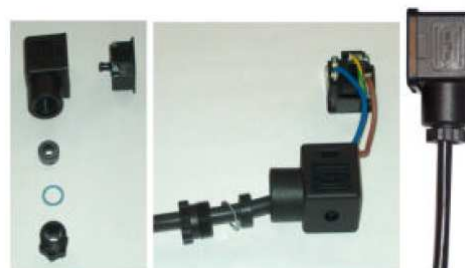
2. Install the solenoid valve according to the general engineering practices and observe all local health & safety requirements & regulations.

3. Connect the Timer back on to the coil and make sure the flat gasket is securely in place between them.

4. Remove the protection cap from the connector and connect your power cable as shown.

Electrical connection:

Brown = Neutral
 Blue = Phase
 Yellow/Green = Ground (must be connected)



5. Connect the DIN connector back on to the front of the Timer as illustrated and make sure the gasket B is securely in place between them and tighten the screw (max. 1Nm).

The unit is IP65 when properly installed.



Timer set up:

Note: the supply voltage must comply with the voltage mentioned on the coil.

1. Switch ON the power.



2. The Timer will start with its pre-set time setting of 10 sec ON and 30 sec OFF. The display will start counting down the ON time (10, 9, 8, etc.) and the SEC led will be flashing. When the ON time reaches 0 sec it will jump to the OFF time and starts counting down the OFF time (30, 29, etc.).

3. When the unit is installed correctly, and when it is operational, you can change the pre-set values to anything ranging from 0.1 sec to 99 hrs. To change the ON time, simply press the right "on/arrow up" button and "on" will appear briefly on the display.



4. The previously set ON time will appear on the display (10) and the "sec" led will be on. You can now press the left "off/arrow down" button for decreasing the time or the right "on/arrow up" button to increase the time. The sec, min or hrs led will highlight the time bracket (i.e 1-99 sec or 1-99 min or 1-99 hrs).



5. If the desired ON time is set, then simply don't press any buttons and after a few seconds the display will start flashing illustrating that the new time is being saved. Once the new time is saved, the unit will start operating with the new time setting.

6. To change the OFF time simply press the left "off/arrow down" button and 'off' will appear briefly on the display.



7. The previously set OFF time will appear on the display (30) and the sec led will be on. You can now press the left "off/arrow down" button for decreasing the time or the right "on/arrow up" button to increase the time. The sec, min or hrs led will highlight the time bracket (i.e 1-99 sec or 1-99 min or 1-99 hrs).



8. If the desired OFF time is set, then simply don't press any buttons and after a few seconds the display will start flashing illustrating that the new time is being saved.

Once the new time is saved, the unit will start operating with the new time setting.

9. The unit is now fully programmed to your desired time settings and will work fully automatically.



10. You can press the TEST button (previous figure) anytime to check the valve operation or to manually activate the valve to discharge any condensate. When the test (middle) button is pressed, a flowing pattern is displayed indicating that the test function is in process.
11. After releasing the test button the unit will resume to normal operation.

CHANGING THE TIMER FUNCTION

- The Timer is able to perform the following functions:
 - Function "A" start with the ON time and then the OFF time, etc.
 - Function "C" start with the OFF time and then the ON time, etc.
 - Function "B" single shot, starts with the ON time and then switches OFF indefinite
 - Function "D" single shot, starts with the OFF time and then switches ON indefinite
- The Timer is factory set to the function "A". However, should you need a different function you can always change it. To do so please follow these following steps:
 1. Disconnect unit from the power supply
 2. Press and keep pressed down the (TEST) button.
 3. Connect to the power supply.
 4. Release the button after "A" appears on display if the unit is being programmed for the first time. If the function has already been changed then the last set function will appear on display (A/B/C or D).
 5. Use (off/arrow down) and (on/arrow up) to select the function (A/B/C or D).
 6. When the function is selected do not press anything and after a few seconds the unit will resume operation with the new function setting.
 7. Change the pre-set ON and/or OFF times if required (see *INSTALLATION – TIMER SET UP*).

RETURNING TO THE FACTORY SETTINGS

- Factory settings of each timer: 10s ON time, 30s OFF time, function "A".
- No matter how you change the settings you can always reset all settings to factory settings. To do so please follow these easy steps:
 1. Disconnect unit from the power supply.
 2. Press and keep pressed down (off/arrow down) and (TEST) buttons.
 3. Connect to the power supply.
 4. Release the buttons after "P" appears on the display.
 5. Then "A" appears on the display - do not press anything.
 6. After a few seconds the unit will resume operation with factory settings.
 7. Change the preset ON and/or OFF times if required (see *INSTALLATION - TIMER SET UP*).

TEST BUTTON

- You can press the test button anytime during operation to check the valve operation or to manually activate the valve to discharge the condensate. When the test (middle) button is pressed a flowing pattern will be displayed indicating test function and valve is activated.



After releasing the test button the unit will resume operation.

**MAINTENANCE**

- Before carrying out any work or maintenance on the unit, depressurise the unit (exhaust all compressed air from the unit) and switch off electrical supply.
- The digital timer is maintenance free. We also recommend you test the electronic drain valve every time the compressed air system is checked, by pressing the TEST-switch on the timer.

PRODUCTS RETURNING**ATTENTION**

- Information regarding any hazards and precautions to be considered because of contaminating fluids and residues or mechanical damage that may represent a health, safety or environmental risk, must be provided in writing by the distributors and costumers when returning products to Valsteam ADCA engineering.
- Health and safety data sheets regarding substances identified as hazardous or potentially hazardous must be provided with the information mention above.

**ATTENTION**

- **LOSS OF WARRANTY:** Total or partial disregard of above instructions involves loss of any right to warranty.