

## INSTALLATION AND MAINTENANCE INSTRUCTIONS

### DIGITAL TIMERS D-LUX

#### GENERAL

1. These instructions must be carefully read before any work involving products supplied by VALSTEAM ADCA ENGINEERING S.A. is undertaken.
2. The installation procedure is a critical stage in a life of the equipment and care should be taken to avoid damage to the valve or equipment.
3. To ensure safe and enduring performance of this product, you must comply strictly with the instructions enclosed herein. Non-compliance with instructions or improper handling of the product will void your warranty! This product is designed for use exclusively with types of fluids or gasses as stated in its documentation.

#### **Warning!**

- The equipments must be used within the working temperature and pressure limits laid down for them, otherwise they may fail (refer to nameplate and/or IS- Information Sheet).
- Do not remove the nameplate attached to the equipment. Serial number and other useful information is stamped on it.
- Observe valid and generally accepted safety rules when planning, installing and using this product.
- Take proper measures to prevent unintentional operation of the product or damage to it.
- Do not attempt to disassemble this product or lines in the system while they are under pressure.
- Always turn off the voltage supply before working on the system.

#### INSTALLATION

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

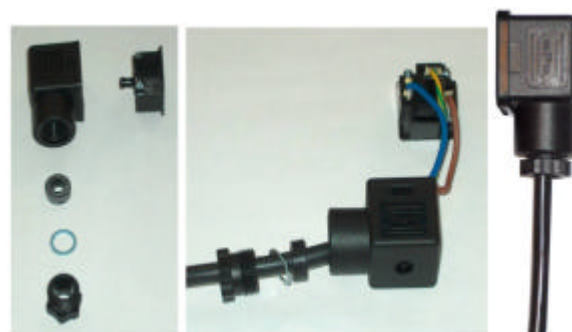


2. Install the solenoid valve according to the general engineering practices and observe all local health & safety requirements & regulations.
3. Connect the Timer back on to the coil and make sure the flat gasket is securely in place.

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

#### Electrical connection:

- |              |   |                           |
|--------------|---|---------------------------|
| Brown        | = | Neutral                   |
| Blue         | = | Phase                     |
| Yellow/Green | = | Earth (must be connected) |



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

*The unit will be IP65 when properly installed.*



- Switch ON the power.  
Note: the voltage must comply with the voltage mentioned on the coil.



- 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.)

- 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.



- 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 of hrs led will highlight the time bracket (i.e 1-99 sec or 1-99 min or 1-99 hrs)



- 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.

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



12. 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).



13. 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.

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

15. You can press the TEST button 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.



16. 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*).

## 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*).

## 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

1. 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.
2. 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.

**LOSS OF GUARANTEE:** Total or partial disregard of above instructions involves loss of any right to guarantee.