

USER GUIDE – MENU 505



- Screen by screen user guide
- Covers Smart Series On Off, On Off f/w Failsafe and On Off Hi Speed
- For Modulating, Modbus, Multi Turn or Timer, see specific guides.
- Firmware guides are updated on a continuous basis for on going development and improvement of our actuators.
- We will release an update to show changes between software as and when we release new firmware versions.
- Check our Product Library online at www.avactuators.co.uk/support

Version 001: 13/10/22 subject to change without notice

SMART ACTUATORS WITH OLED SCREEN, TOUCH BUTTONS AND SMARTMENU™

All of our Smart actuators have a colour OLED screen and 3 x touch buttons. The screen will typically tell you all you need to know about your actuator, from the input command to the actual position, any problems with the actuator such as loss of power (if failsafe) or flash ALERT if the actuator as an alarm condition such as an over torque situation or valve jam. As standard, all of our actuators have Local Control as explained below. The touch buttons are used to navigate our onboard firmware to adapt and change the actuator settings to enable you, the user to customise our Smart actuators to your application and own specific requirements.

How to access the main customer accessible menus:

Main Menu:	Hold M for 3 seconds and enter the password 333 to access main user Main Menu.
Local Control:	Hold K3 (bottom button) for 3 seconds and enter the password 111 to access Local Control / manual override
Reset:	Need to go back to factory reset/default settings? Hold all 3 buttons for 3 seconds and enter 6666.
Note:	If the actuators is left in a menu screen without a change in 120 seconds, the actuator will exit the menu.



Understanding the default screen: this is the screen you will see when not in a menu but the actuator is powered

1.	Input Command: ON = Open OFF = Closed	5.	K2 = Button used in SmartMenu	9.	On power up shows the total number of errors. You can also view this screen whenever exiting a menu. *Note that this information turns off quickly.
2.	Angle: Shown as %. 0% is Closed 100% Open	6.	K3 = Button used SmartMenu/Local Control		
3.	IDLE: Actuator is waiting next command	7.	On power up, shows Firmware Version Number		
4.	M = Button to enter / use in SmartMenu	8.	On power up, shows total number of cycles		



SCAN ME

New feature, we are adding a QR label to all of our products that will enable users of our product to have quicker and more direct access to support documents via our new purpose built QR website. Simply scan the QR code using your Smart phone camera and you will be taken directly to the specific actuator you have on site and will have access to Technical Datasheets, Firmware guides and product support videos.







English version. Available in Spanish



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Screen by Screen Firmware guide for Smart Actuators Series 10, 20, 50, 80 and 110.

<p>UserSET: PassWord: XXX</p>	<p>Hold the M button until “M” is flicking on top right corner. After 3s, input password '505', this will enter the “User setting mode”. Then user press M button to get into next item.</p>
<p>UserSET: DisMode: Chinese</p> <p>UserSET: DisMode: English</p>	<p>Display mode: switch between Chinese and English display mode</p> <p>Options: English/Chinese</p> <p>Manual instruction: press K3 to cycle between the two choice. Press M to get into next item.</p>
<p>UserSET: BallType: STRAIG  Direct ball</p> <p>UserSET: BallType: HOR_T  HOR ThreeWay</p> <p>UserSET: BallType: HOR_L  HOR ThreeWay</p> <p>UserSET: BallType: VER_L  VER ThreeWay</p>	<p>This parameter is used to choose type of valve ball.</p> <p>Options: STRALG (Direct ball : two way valve or butterfly valve);</p> <p>HOR_L(HOR Three-way: horizontal three way valve, L type);</p> <p>HOR_T(HOR Three-way: horizontal three way valve, T type);</p> <p>VER_L(VER Three-way: vertical three way valve, T type)</p> <p>The system default is STRALG .</p>



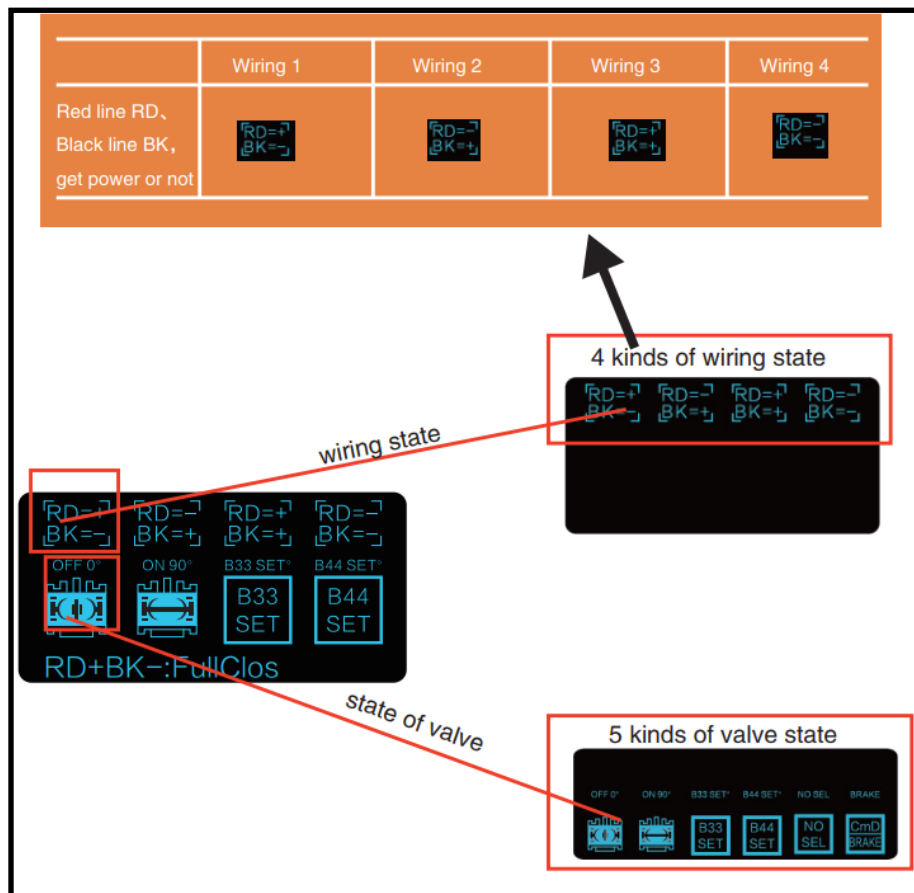
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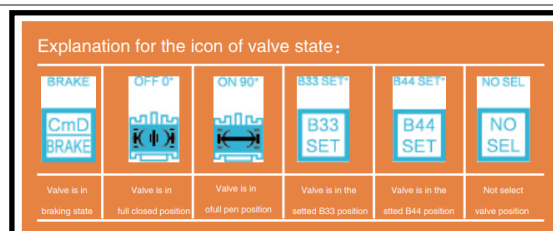
STRALG : Direct ball :two way valve or butterfly valve.

4 kinds of wiring state - The following image shows the meaning for the 4 kinds of wiring state:

Notes: Not every actuators have same above parameters. The system will automatically get into next parameter if the purchased product couldn't available above some parameters



The following image shows the meaning for the 5 kinds of valve states:



Operation instruction:

In this menu, key K2 is used to switch the [wiring state]; The key K3 is used to switch [valve state]. User could set the valve state corresponding with each wiring state according to actual need.

Press M button to enter next setting item.



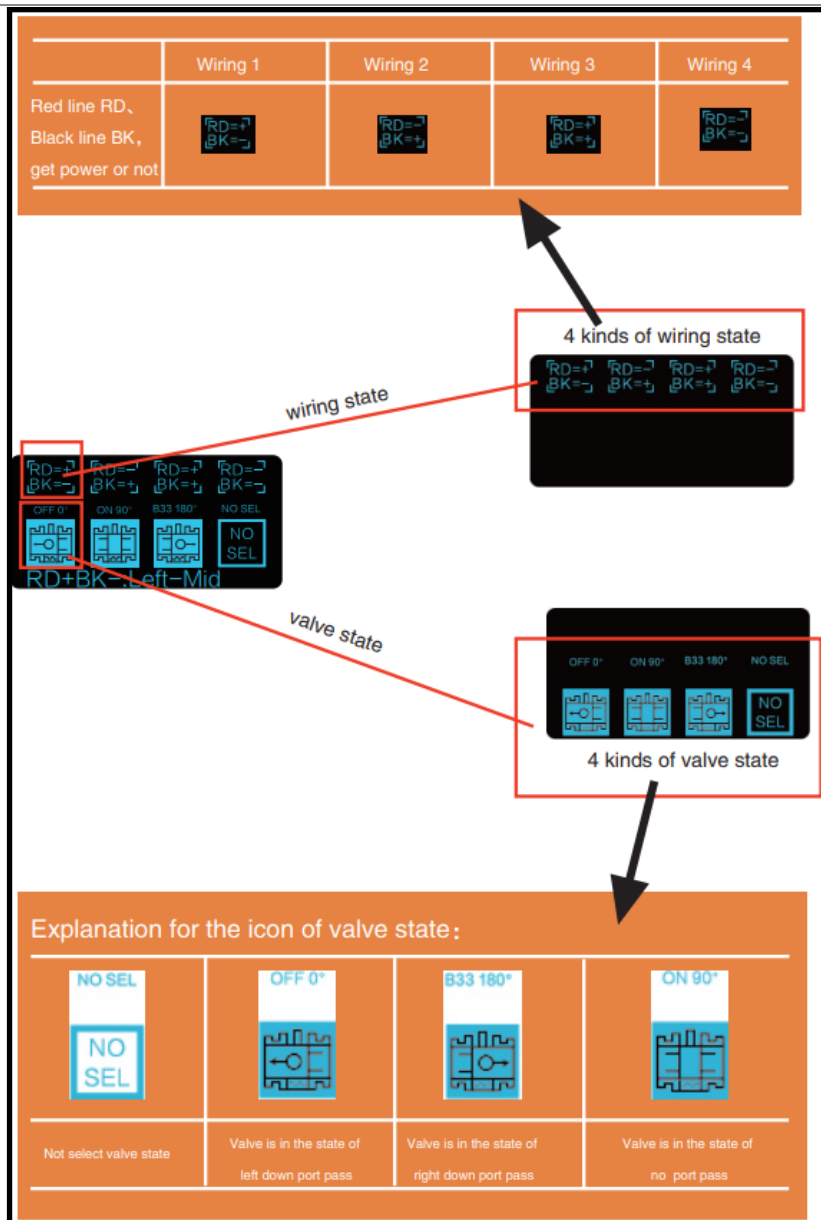
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VER_L: vertical three way valve ,L type

4 kinds of wiring state - The following image shows the meaning for the 4 kinds of wiring state:

Notes: Not every actuators have same above parameters. The system will automatically get into next parameter if the purchased product couldn't available above some parameters



Operation instruction:

In this menu, key K2 is used to switch the [wiring state]; The key K3 is used to switch [valve state]. User could set the valve state corresponding with each wiring state according to actual need.

Press M button to enter next setting item.



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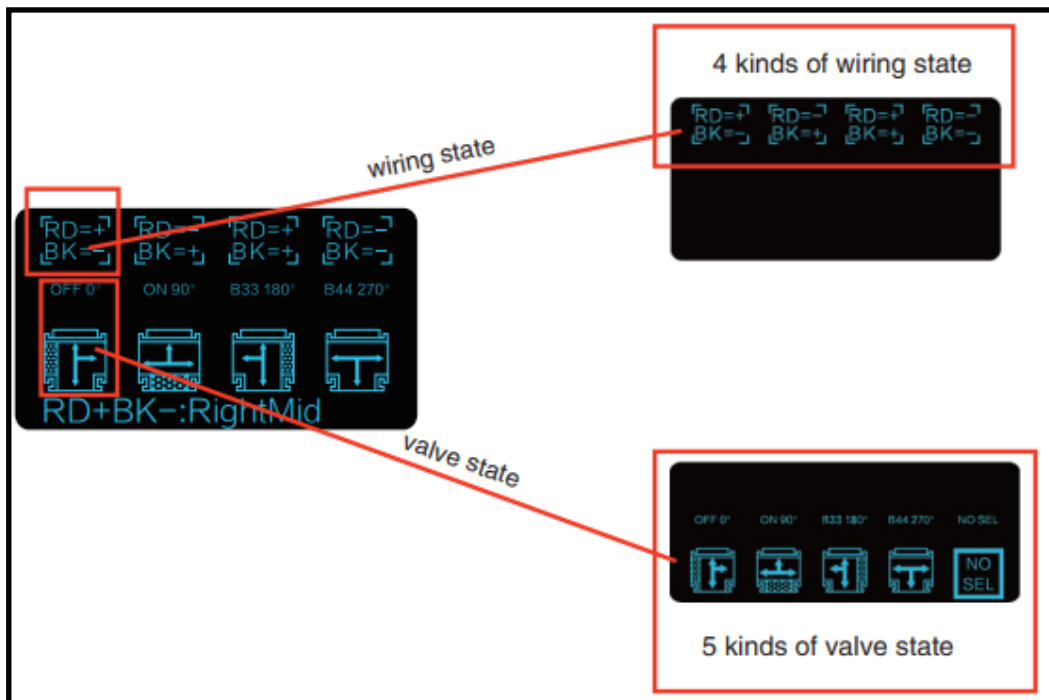
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HOR_T: Horizontal three way valve

4 kinds of wiring state - The following image shows the meaning for the 4 kinds of wiring state:

Notes: Not every actuators have same above parameters. The system will automatically get into next parameter if the purchased product couldn't available above some parameters

	接线状态1	接线状态2	接线状态3	接线状态4
红线RD、 黑线BK、 得电情况				



The following image shows the meaning for the 5 kinds of valve states:

Explanation for the icon of valve state:				
Not select valve state	Valve is in the state of back, right and front ports pass	Valve is in the state of left, back and right ports pass	Valve is in the state of back, left and front ports pass	Valve is in the state of left, front and right ports pass

Operation instruction:

In this menu, key K2 is used to switch the [wiring state]; The key K3 is used to switch [valve state]. User could set the valve state corresponding with each wiring state according to actual need.

Press M button to enter next setting item.

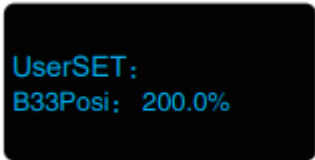
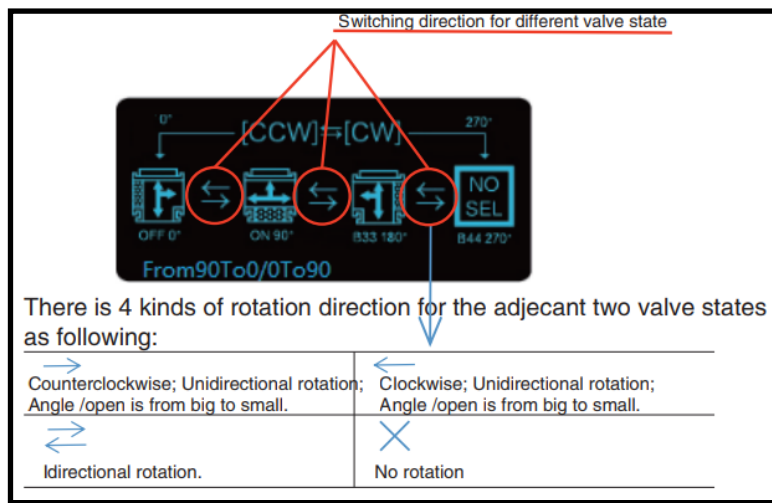


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Rotation direction

This parameter is only available for horizontal three way valve ,L and T type. **【Rotation direction】** In general ,the rotation of two adjacent valve states is bidirectional. But in some special case that project ask to avoid some special valve state, at that case, user should set the required rotation direction according to actual need.



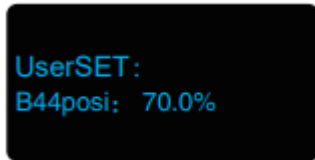
B33 Setting: This parameter is effective for the B33 actuator. B44 control see B44 setting.

B33 means the third position except on/off position of actuator.users. Factory default to adjust at the range of 10%-220% user setting. If other percentage is to be customized,

Press k3 increase

Press k2 decrease

Press M Button enter next setting “□7 B44 position



B44 position: only available in B44 control model

Mid1 position is the first position of the B44 control.

The default is 33%.

Press k3 increase

Press k2 decrease

Press M Button enter next setting “□8 Exit setting

Instruction: Press K3 button exit setting , Press M button circle the start menu setting item, after exiting setting , system will enter automatic control mode.