SERIES 20-110 MT ON/OFF

FIRMWARE SUPPORT DOCUMENT



USER GUIDE VERSION 11.6

- Screen by screen user guide
- Covers Smart Series Multi Turn On Off
- For Standard, Modulating, Modbus 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

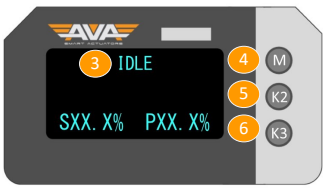
Version 001: 13/10/22 subject to change without notice

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 - On Off Multi Turn S20, S50, S80 and S110.	
UserSET PassWord: XXX	User settings are accessed by holding down the 'M' button for ~3 seconds, after this time the screen will request a password. The User Settings password is simply: 333 Use 'K2' to select the column and 'K3' to change the number.
UserSET DisMod: English	Display Mode allows the user to choose English or Chinese. If you hard reset the actuator using 6666 password, this will default the actuator to Chinese. To change back to English, simply hold M, enter 333, press M to go to the first screen and press K2 to select English.
UserSET SetTurns: XX.XX	Here you can set the number of turns required for your valve. Series 20 has a max number of turns of 5, Series 50 has a max number of turns of 15 and the Series 80-110 have a max number of turns of 20. See our Multi Turn datasheet for more details.
UserSET Md360° 1x:XX.XX%	Md360 allows you set a different % of a turn with a set turn. So for example you can adjust each turn individually in addition to setting the above overall turns of the actuator. *In general this setting is not required to be changed.* The number of screens determines how many screens are shown. For example, for Series 20, there are 5 additional screens. Range is 90-110%
UserSET DeadZone: X.X%	DeadZone is a sensitivity feature which allows for much more accurate positioning. The AVA default setting stops the actuator from hunting on a signal.
UserSET Hysteres: X.X%	This option would be used if the output drive does not engage with the valve stem immediately. The actuator will move to the set % before it starts its 90° turn.
UserSET ClPosAdj: XX%	This setting allows you to make a small adjust to angle of the closed position.
UserSET B33Posi: XX%	B33 is the AVA version of a 3rd position. This setting allows the user to adjust the angle of that 3rd position. Note that the range of the actuator for open and close is 0-100%. Example, if you set the B33 to 50% it will set the mid position as 45 degrees or 50% open.
UserSET RB1Mode: REMOTE	Refers to the feedback mode, the option as following: REMOTE: Remote function. The LED will show blue and alarm signal will be remoting signal when someone press the key. Out_4mA:4-20mA feedback.