USER GUIDE VERSION 14.0

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

Screen by Screen Firmware guide for Smart Actuators Series 10, 20, 50, 80 and 110.	
UserSET BrkDelay: 100ms	Break Delay allows the actuator to delay its movement from one position to another.
UserSET PosiOFBrk: 100ms	PosiOFBrk is the brake delay time in the range of Deadzone of full-close. The default is 80ms.
UserSET SWDIR_Dly: 0ms	Switch Direction Delay is similar to the above setting, although this is based on a sudden change of direction rather than end of travel. *Not recommend to change default setting*.
UserSET PDChk_Time: 20x	Power Down Check Time dictates the delay on the actuator using the capacitors to close on loss of power. E.g. if loss if power lasts 2 seconds the actuator would not immediately begin to close. **Only applicable if actuator is Failsafe type*
UserSET CapCharge: XXX%	Failsafe actuator capacitors should be fully charged before the actuator is operable and therefore the default setting reflects this. But with this setting you can change the actuator to power on at an earlier %. **Only applicable if actuator is Failsafe type*
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 Posi_0: XXX%	This setting allows the user to adjust the angle of to open position.
UserSET Posi_90: XXX%	This setting allows the user to adjust the angle of the closed position.
UserSET RevDis: Normal	4-20mA: Control direction: Direct acting (Dir), Reverse acting (Rev). Direct acting: 4mA means valve is totally off, 20mA means valve is totally on. Reverse acting: 4mA means valve is totally on, 20mA means valve is totally off

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UserSET DisPosi: Pos420	DisPosi is the setting to displaying mode. This parameter is setting to the display value of Posi 4mA and Posi 20mA. 0-100%:is logic displaying value;Pos420 is practical position value.
UserSET FKChkMod: FK_ERR	FKChkMod is setting the mode of feedback signal and LED, If you set as ERR , then the LED light means the actuator is in alarm status If you set as B33 ,then the LED light blue means the actuator arrive to the B33 position
UserSET Out_4mA: X.X%	If the deviation value of the output current of 4mA is large, it can be adjusted by modifying this value
UserSET Out_20mA: XX%	If the deviation value of the output current of 20mA is large, it can be adjusted by modifying this value
UserSET PDAction: 20x	Power Down Action allows the user to dictate the failsafe position. Whether that be Open, Close, complete the last signal given or Keep in position.
UserSET TestAlarm: ON	To replicate an 'Alert' situation we can set the 'Test Alarm' to 'ON'. This will turn the LED Blue, if you purchased your actuator with an alarm relay, this will also generate a signal.
UserSET AlarmFreq: XX/m	Alarm Freq is one kind of warning words. It means the actuator will flash HF SW on the top right corner on the screen when the number of switching control signals is over the set number. HFSW will appear if a high level of switching of signal occurs.
UserSET StartUpDelay: X.Xs	StartUpDly is the displaying time of the start-up interface. The default value is 0.5s.
UserSET Cycles: XXXXXXXX	Cycles is a parameter which displays the running numbers of the actuator.

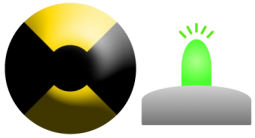
SERIES 20-110 MODUALTING

FIRMWARE SUPPORT DOCUMENT

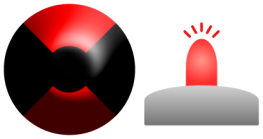
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UserSET ErrStall: XXXXXX	Shows the amount of times the actuator has gone into alert .
UserSET SoftVer: vXX.X	Shows the firmware version number.
UserSET ExitSET: Push K3	Once you have made any of the necessary changes, please press K3 to save and exit. You will see the message 'SaveOK' appear and the actuator will display a 'Thank you for your use' message and default back to the default screen that displays actuator input and actual position.
 Manual: OFF Angle: XX.XX% K2 OFF	Local Control / Manual Control under power: This mode is to control the actuator locally when power is applied to the actuator. Simply hold the bottom button (K3) for 3-4 seconds and enter the password 111 and press M. Once in the menu you will see Manual displayed on screen, the actuator can now be controlled by pressing K2 (middle button) and K3. This will open/close the actuator. To exit the screen simply press M and you will return to the powered mode and the actuator will return to the signal currently being applied. If the actuator is left in Local Control, after approx. 45 seconds the actuator will return to the powered mode. Remember to not use the Manual Override via Allen key when power is applied. Refer to the Installation, Operation and Maintenance guide.



Open 100%
10V/20mA
90° Yellow/Yellow
Green LED



Closed 0% 0°=
0V/2V/4mA
Red / Red
Red LED



Blue LED shows
ALERT mode. Motor
failure or overload
torque from valve

It is possible to set the actuator 0-180 degree working angle for example, 0 = 4mA and 180 = 20mA. Contact us for more information.

*See specific guide on how to re calibrate your actuator from 4-20mA to 2-10V or 0-10V. Online at www.avactuators.co.uk/support



For more support documents, video and general product information visit www.avactautors.co.uk.

To view other Firmware guides for Modulating actuators and Series 200-400, click on the image of the actuator. As we update our Firmware guides, we will make superseded versions available for download on our website.

English version. Available in Spanish

Technical Support: +44(0)1386 556847 | **technical@avactuators.co.uk**