USER GUIDE VERSION 13.9

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

Screen by Screen Firmware guide for Smart Actuators - Modulating Multi Turn S20, S50, S80 and S110.	
UserSET Manu_Spd: XXX%	Manual Speed allows the user to dictate the speed in which the 'Manual' operation runs. Range 20% to 99%
UserSET StallTime: 5X	Stall Time represents the delay between the actuator detecting an error and the actuator triggering the alert signal (LED will light BLUE). Range 5X to 90X
UserSET BrkDelay: 100ms	Break Delay allows the actuator to delay its movement from one position to another. Range is 0ms to 990ms.
UserSET PosiOFBrk: 100ms	PosiOFBrk is the brake delay time in the range of DeadZone of full-close. Range is 0ms to 200ms. 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. Range is 20ms to 2000ms. *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. **Failsafe not yet available for MT Series.*
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 %. **Failsafe not yet available for MT Series.*
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_O: XXX%	This setting allows the user to adjust the angle of to open position. Range –40% to 40%.

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UserSET Posi_90: XXX%	This setting allows the user to adjust the angle of the closed position. Range 80% to 130%
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.
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. **Failsafe not yet available for MT Series.*
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.

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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.
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.
	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.

For more support documents, video and general product information visit www.avactautors.co.uk. As we update our Firmware guides, we will make superseded versions available for download on our website.

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