USER GUIDE VERSION 11.6

Version 001: 3/10/22 subject to change without notice

Screen by Screen Firmware guide for Smart Actuators - On Off Multi Turn S20, S50, S80 and S110.

UserSET FK_Refer: ANGLE	FK_Refer :By2CMD:Feedback is execute according to the feedback mode CM_POS: Feedback is according to the angle corresponding with the command. At this mode, the above ''feedback mode'' is invalid and the feedback is only execute according to the angle.
UserSET FK_Mode: FK_ERR	This setting sets the feedback mode. FK_ERR means the feedback is for the alarm and the LED will light blue . If user choose the B33 , the led will change to Blue when the actuator is in the 3rd position. Blue LED will also show when actuator is in ALERT condition.
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 Speed_PUL: XXX%	PULSE mode (PUL): the bigger the setting is the slower the working time is, the smaller the setting is the faster the working time is. Note that this cannot increase the standard set working time, it can only slow it down. *Note speed control can reduce torque output*
UserSET Speed_PWM: XXX%	The method of speed control. The bigger the value the faster the actuator will operate, the lower the value the slower the actuator will work. *Note speed control can reduce torque output*
UserSET StallTime: XXx	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: XXms	Break Delay allows the actuator to delay its movement from one position to another. Range is 0ms to 990ms.
UserSET SWDIRDly: XXms	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*.

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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 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. *Not recommended to change default setting*. *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 CMD_Swap: Yes	Command swap is to reverse the input command from the standard. You can reverse the signal so that the standard ON command would be OFF and OFF would be ON.
UserSET BothIN_ON: KEEP	This setting allows you to set how you want the actuator to respond on receiving input voltage to both the ON and OFF command. Usually you will operate the actuator by either powering ON (open) or powering OFF (closed) but if you apply power to both ON and OFF at the same time, we can set the actuator to keep current position, Open/Close or go to a 3rd (B33) position.
UserSET MVF_FiltCoe: 15	The actuator will digitally filter the input signal. The bigger value, the better filter effect, but the responding time of the actuator to the signal will be longer. So, this value should not be too high. *Not recommended to change default setting*.
UserSET LPF_FiltCoe: 15	LPF_FiltCoe: Low-Pass-Filter. The smaller coefficient, the more stable filtering effect, the lower sensitivity; The bigger coefficient, the higher sensitivity, the more unstable filtering effect; *Not recommended to change default setting*.
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 BrkDelay: 100ms	Break Delay allows the actuator to delay its movement from one position to another.

SERIES 20-110 MT ON/OFF

FIRMWARE SUPPORT DOCUMENT

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UserSET StartUpDelay: X.Xs	Break Delay allows the actuator to delay its movement from one position to another.
UserSET Cycles: XXXXX	This is a counter of how many full open and close cycles that the actuator has completed
UserSET ErrStall: XXXXX	This is a counter of how many time the actuator has gone into error
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.

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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