USER GUIDE VERSION 11.4

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

Screen by Screen Firmware guide for Smart Actuators Series 200-400 only	
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 Ctrl_Mode: Dir	Control Mode is our onboard feature which allows a signal to be swapped. For example, with 'Dir' selected 4mA would be Closed or with 'Rev' selected 4mA would be Open.
UserSET NoCtr_Act: On	When the input signal is lost, for example 4-20mA or 0-10V, but actuator still has power, the actuator can use the power to move to a preset position. This can be ON (open) OFF (closed) KEEP (keep current position) or B33 (this is a 3rd position set in firmware)
UserSET IsGo_Hyste: Yes	This setting is a prerequisite to the next option 'Hysteresis'. This option simply enables or disables the Hysteresis function. The default is 'NO'.
UserSET Hysteres: X.X%	As per the previous screen, you must select 'YES' to enable this function. 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 SpeedMax: XX%	This setting allows the user to adjust the maximum running speed of the actuator. 100% is the default. *Note speed control can reduce torque output*
UserSET SpeedMin: XX%	This setting allows the user to adjust the maximum running speed of the actuator. 100% is the default. *Note speed control can reduce torque output*
UserSET PosiFOFSpd: XX%	PosiFOFSpd is the actuator running speed in the range of deadzone. The system default is 85%.
UserSET RangeAdj: XX.X%	Set the actuator to reach the control range for the specified position. The default is 10.0%

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How to access the main customer accessible menus:	
UserSET Channel: 4To20mA	When modulating you will wire the actuator based on 4-20mA or 0-10V. This setting is how you inform the actuator which of the signals you are giving. The default is 4-20mA.
UserSET MVF_FiltCoe: 15	The actuator will digitally filer 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 SampPerod: XXms	SamPerod is sampling period of control signal. The shorter the period, the more sensitivity of sampling to control signal. *Not recommended to change default setting*
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 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.
Re Calibration Required	If you change your actuator's control signal from the default of 4-20ma to 2-10V for example, you will need to recalibrate the actuator using the input signal you have. We have produced a step by step guide for doing this on our website. Please ensure you follow our guide if you need to change the input control signal.

SERIES 200-400 MODUALTING

FIRMWARE SUPPORT DOCUMENT

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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 allow certain the following functionality. Both ON and OFF: KEEP: this will keep the current position of actuator ON: this will go to the ON (open) position of actuator OFF: this will go to the OFF (close) position of actuator B33: this will go to the B33 / 3rd position
UserSET BothIN_OFF: KEEP	
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.

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