Quick Start Guide VCIOM-08536-EN Rev. 1

EPI2 Quarter-Turn Electric Actuator

Base and OM1 Card



EPI2 Base and OM1 Card

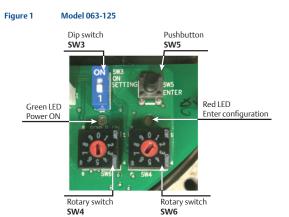
June 2021

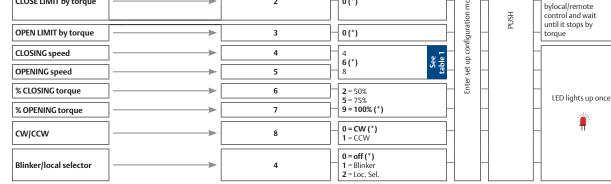
Quick Start Guide VCIOM-08536-EN Rev. 1

Base Card

EPI2 Quarter-Turn Electric Actuator

									Figure 1
		Rotary Swit	ch Settings						
Configurations		Move switch SW4 to position indicated in each row	Move switch SW6 to position indicated in each row	SW3	Confirm by SW5	Red LED		SW3	
CLOSE LIMIT by position]>	2 –	1 (*)	_	-	LED lights up once	Ъ		
	Drive the actuator to the CLOSE position using the handwheel	0	0	_		*			Gr Po
OPEN LIMIT by position	→	3	1 (*)	-	-	LED lights up once	ЪΙ	(6	
	 Drive the actuator to the OPEN position using the handwheel 	1	0	SW3 to ON				1 (Run Setting)	
			0 (*)	ving S		Operate the actuator to direction		W3 to	





Note: (*) Factory

PRE-INSTALLATION: See VCIOM-02881 INSTALLATION AND MAINTENANCE INSTRUCTIONS. Not performing the following procedures will invalidate the product warranty. **INSTALLATION:** To assemble the actuator onto the valve proceed as follows:

- Verify proper mounting hardware. а. Ь.
- Verify proper electrical service to the actuator
- c. d.
- Lubricate the value stem with oil or grease to make the assembly easier: pay attention not to contaminate with lubricant the flange surfaces which transmit the actuator torque. Clean the value flange and remove anything that might prevent a perfect adherence to the actuator flange and especially all traces of grease. Install the actuator onto the value so that the shaft out put drive enters the groove of the stem extension. This coupling must take place without forcing and only with the weight of the actuator.
- e. f. Ensure actuator and valve are in same orientation when bolting together.
- With the handwheel, operate the actuator to verify it moves the valve smoothly. g.

A WARNING

The configuration must be done while the actuator is powered on. As a consequence, all configuration operations must be carried out by specifically qualified personnel for operations on powered electronic cards. Hazardous voltages may be present. Before connecting power to the actuator, check that the voltages are correct and according to the nameplate data. Improper power supply will cause permanent damage to the electrical components. Actuator configuration programming requires removal of the actuator cover. Refer to VCIOM-02881 IOM for instructions.

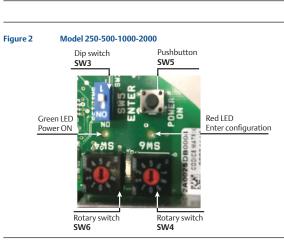


Table 1.

Exit set up configuration moving !

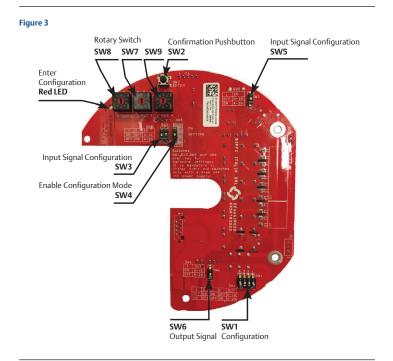
╘

N	Nominal torque	Operating time (secs 90°) at selected step								
Model	(Nm / lb-ft)	8	6	4						
063	63 / 46	15	28	48						
125	125 / 92	15	28	48						
250	250 / 184	15	28	48						
500	500 / 369	15	28	48						
1000	1000 / 738	24	45	80						
2000	2000 / 1475	53	100	180						

OM1 Card

EPI2 Quarter-Turn Electric Actuator

	_			Rotary Swi	tcl	h Settings]						_	
Configurations		Move switch SW8 to position indicated in each row		Move switch SW7 to position indicated in each row		Move switch SW9 to position indicated in each row		SW4		Confirm by SW2		Red LED		SW4
RELAYS LS3-LS5	-	7		0=break –	_]_	-		ļ	_		_	
RELAYS LS4-LS6	-	8		1=make (*)	_		_	-	_		_			(6
POSITION Relays LS3	-	0	_	0 to 9 [0=(*)]	-	Any position		inter set up configuration moving SW4 to ON	_			*	_	Settin
POSITION Relays LS4	-	1		0 to 9 [3=(*)]	-				_				_	(Run
POSITION Relays LS5	-	2		0 to 9 [7=(*)]			┝		_				_	4 to 1
POSITION Relays LS6	-	3		0 to 9 [9=(*)]	_		_	movir	_		_	once	_	^g SW ⁴
SET Input as "4-200mAA"	-	9		0=off 1=on (*)	_	4]	guration		Push		LED lights up once		n movin
SET 0% input 4-200mAA]►			0 = 4 mA (*)	-		\vdash	config	_		_	Ē	_	uratio
SET 100% input 4-200nAA]→	4		1 = 20 mA (*)	_	Any position	_	et up	_		_		_	onfig
SET Input as "0-100V"	-			0=off(*) 1=on	_	5		Enter	_		_			skit set up configuration moving SW4 to 1 (Run Setting)
Feedback mA or V&C	 	9		2=mA (*) 3=Volt	_	1]	-						E
Modulation	-			0=off(*) 1=on	_	3]	-		,	_			



		Hardware C	onfiguration		
		Input Signal	-		
	S۱	W3	SW5		
	1	2	1		
0-10V	ON	OFF	OFF		
4-20mA	OFF	ON	ON	1	
			Output Signa	l	
		S۱	<i>N</i> 1		SW6
	1	2	3	4	1
0-10V	OFF	ON	ON	OFF	ON
4-20mA	ON	OFF	OFF	ON	OFF

Table 2.

SW7	Position Relays	0	1	2	3	4	5	6	7	8	9
Description		Inactive	2%	12,50%	25%	37,50%	50%	62,50%	75%	87,50%	99%

Note:

(*) Factory default data

PRE-INSTALLATION: See the BASE CARD procedure.

INSTALLATION: See the BASE CARD procedures.

A WARNING

For complete Instruction & Warning see the VCIOM-01494 INSTALLATION AND MAINTENANCE INSTRUCTIONS. **HARDWARE** configuration MUST be done with system OFF (NO power supply), **SW3** and **SW5** position in order to set the INPUT signal type. HARDWARE configuration (SW1/3/5/6): This configuration is an Hardware setting; it's mandatory to do it with power off (NO POWER SUPPLY).

World Area Configuration Centers (WACC) offer sales support, service, inventory and commissioning to our global customers. Choose the WACC or sales office nearest you:

NORTH & SOUTH AMERICA

19200 Northwest Freeway Houston TX 77065 USA T +1 281 477 4100

Av. Hollingsworth 325 Iporanga Sorocaba SP 18087-105 Brazil T +55 15 3413 8888 P. O. Box 17033 Jebel Ali Free Zone Dubai T +971 4 811 8100

MIDDLE EAST & AFRICA

P. O. Box 10305 Jubail 31961 Saudi Arabia T +966 3 340 8650 EPI2 Base and OM1 Card June 2021

ASIA PACIFIC

No. 9 Gul Road #01-02 Singapore 629361 T +65 6777 8211

No. 1 Lai Yuan Road Wuqing Development Area Tianjin 301700 P. R. China T +86 22 8212 3300 24 Angus Crescent Longmeadow Business Estate East P.O. Box 6908 Greenstone 1616 Modderfontein Extension 5 South Africa T +27 11 451 3700

EUROPE

Holland Fasor 6 Székesfehérvár 8000 Hungary T +36 22 53 09 50

Strada Biffi 165 29017 Fiorenzuola d'Arda (PC) Italy T +39 0523 944 411

For complete list of sales and manufacturing sites, please visit www.emerson.com/actuationtechnologieslocations Or contact us at info.actuation technologies@emerson.com

www.emerson.com

VCIOM-08536-EN ©2021 Emerson. All rights reserved.

The Emerson logo is a trademark and service mark of Emerson Electric Co.

The contents of this publication are presented for information purposes only, and while every effort has been made to ensure their accuracy, they are not to be construed as warranties or guarantees, express or implied, regarding the products or services described herein or their use or applicability. All sales are governed by our terms and conditions, which are available on request. We reserve the right to modify or improve the designs or specifications of our products at any time without notice.

