Modbus Data Point List

Date: 17-07-2026
Vendor Name: FlowCon
Product Name: FlowCon SM Actuators with Modbus
Product Model Number: SM.0.0.1.5 / SM.0.0.1.6
Actuator Software Version: FL1 V206

Product Description:
Electrical actuator with BUS communication (BACnet or Modbus) for PICV valve: FlowCon SM.

List of Data Points

Reg. ID	Data Type	Name	Description	R/W	Value Options
1	uint16	MAC_Address	MAC address	R/W	MAC Address = 1-127
2	uint16	Link_Speed	Baud rate	R/W	Baud Rate = Link Speed: 0= 9600 1= 19200 2= 38400 3= 57600 4= 76800 5= 115200
3	ASCII	Serial_Number	Product name, character 1-2	R	
4	ASCII	Serial_Number	Product name, character 3-4	R	
5	ASCII	Serial_Number	Product name, character 5-6	R	
6	ASCII	Serial_Number	Product name, character 7-8	R	
7	ASCII	Serial_Number	Product name, character 9-10	R	
101	int32	Control Signal	Current control signal to actuator	R	Unit as per reg. 2109
102	int32	Control Signal Min_Pres_Value	Minimum control signal value for the actuator	R/W	Unit as per reg. 2109 Min. control signal = 0-7 (if unit is V), 2 Increment (if unit is V): 0.1 Min. control signal = 0-14 (if unit is mA), 4 Increment (if unit is mA): 0.2
103	int32	Control Signal Max_Pres_Value	Maximum control signal value for the actuator	R/W	Unit as per reg. 2109 Max. control singal = 3-10 (if unit is V) Increment (if unit is V): 0.1 Max. control singal = 6-20 (if unit is mA) Increment (if unit is mA): 0.2
104	int32	Power Supply Voltage	Power supply voltage	R	Unit = Volt
105	int16	Battery Voltage	Actuator's battery voltage level	R	Unit = Volt *Only relevant for SM.0.0.1.6 (failsafe)*
201	uint16	Feedback Signal	Current feedback signal from actuator	R	Unit as per reg. 2110
202	uint16	Feedback Signal Min_ Pres_Value	Minimum value of feedback span	R/W	Unit as per reg. 2110 Min. control signal = 0-7 (if unit is V), 2 Increment (if unit is V): 0.1 Min. control signal = 0-14 (if unit is mA), 4 Increment (if unit is mA): 0.2

Reg. ID	Data Type	Name	Description	R/W	Value Options
203	uint16	Feedback Signal Max_ Pres_Value	Maximum value of feedback span	R/W	Unit as per reg. 2110 Max. control singal = 3-10 (if unit is V) Increment (if unit is V): 0.1 Max. control singal = 6-20 (if unit is mA) Increment (if unit is mA): 0.2
301	bit	Digital Open Signal	Digital open status input	R	0= Inactive 1= active
302	bit	Digital Close Signal	Digital close status input	R	0= Inactive 1= active
2101	bit string	Actuator Alarm Flags	Actuator's current alarm flags	R	0000000000000 0= no flag 1= flag #0 = Power fail #1 = No Valve #2 = Hardware #3 = Overtorque CW #4 = Overtorque CCW #5 = Over temperature #6 = *Not Active* #7 = No control signal #8 = Battery fail #9 = Power low #10 = Was overtorqued #11 = *Not Active* #12 = Network timeout
2102	bit string	User Configuration Flags	Individual user settings	R/W	000 0= no flag 1= flag #0 = Password #1 = Flush #2 = Failsafe delay (from standard 1 minute to user selected 15 minutes)
2103	uint16	Auto-Stroke Frequency (days)	The frequency in days between auto stroke procedures	R/W	0 to 365. Unit is days 7 0= deactivated
2104	uint16	Network Timeout		R/W	1 to 60. Unit is minutes
2105	uint16	Actuator State	Actuator's current state	R	0= Auto Stroke 1= Standby 2= Normal 3= Alarm 4= *Not Active* 5= Failsafe / Failure 6= Calibration 7= Flushing 8= Service Override (Service Ovrd)
2106	uint16	Actuator Rotation Direction	Actuator's rotation direction	R/W	0= NC 1= NO
2107	uint16	Valve Model	Valve model on which the actuator is fitted	R/W	0= SM.1.1 6= SM.4.2 1= SM.2.1 7= SM.4.3 2= SM.3.0 8= SM.5.1 3= SM.3.1 9= SM.5.2 4= SM.3.2 10= SM.6.2 5= SM.4.1 11= SM.0.0
2108	uint16	Flow Unit Scale	Flow unit	R/W	0= l/sec 1= GPM 2= l/hr
2109	uint16	Actuator Control Signal	Actuator's control signal	R/W	0= Volt 1= mA 2= Digital 3= Serial (= BUS)
2110	uint16	Feedback Signal	Actuator's feedback signal	R/W	0= 2-10 Volt 1= 0-10 Volt 2= 4-20 mA 3= AU (=automatic) *Reg. 2110= 3 not available, if reg. 2109= 3*

Reg. ID	Data Type	Name	Description	R/W	Value Options
2111	uint16	Actuator Mode	Actuator's control mode	R/W	0= LIN FLO (=linear flow) 1= EQ PCT (=equal %) 2= LIN ROT (=linear rotation)
2112	uint16	Modbus Parity	Modbus parity	R/W	0= None 1= Odd 2= Even
2113	uint16	Battery Status	Battery status	R	0= None (=no battery) 1= Lost (=battery lost or loose) 2= Charge level 0 (=battery level low) 3= Charge level 1 (=battery level medium low) 4= Charge level 2 (=battery level medium high) 5= Charge level 3 (=battery level full) *Only relevant for SM.0.0.1.6 (failsafe)*
2114	uint16	Actuator Communication Mode	Actuator's communication mode	R/W	0= Disabled 1= BACnet 2= Modbus
2115	uint16	Modbus Stop Bit	Modbus Stop Bit	R/W	0= 2 bits 1= 1 bit
2116	uint16	Actuator Position	Actuator's current position	R	Unit = ° SM.1.2 .. 5.2 valve: 0-2160° SM.6.2 valve: 0-3600°
2117	uint16	Actuator Position Setpoint	Actuator's setpoint position	R	Unit = ° SM.1.2 .. 5.2 valve: 0-2160° SM.6.2 valve: 0-3600°
2118	uint16	Actuator Control Demand	Control unit in Modbus	R/W	Unit = % 0.0 to 100.0
2119	int16	Internal Temperature	Actuator's internal temperature	R	Unit = °C
2120 2121	int32	Max Flow	Actuator's maximum flow setting	R/W	0 to 277100. Unit as per reg. 2108 Range and increments adapt to selected valve in valve in reg. 2107
2122	int16	Power Failsafe Position	Actuator's failsafe position in case of power loss	R/W	-1.0 to 100.0. Unit in % 0.0 -1= Fail in place *Only relevant for SM.0.0.1.6 (failsafe)*
2123	int16	Control Signal Failsafe Position	Actuator's failure position in case of control signal loss	R/W	-1.0 to 100.0. Unit in % 0.0 -1= Fail in place
2124 2125	int32	Current Flow	Actuator's current flow rate	R	Units as per reg. 2108
2126	bit	Factory Reset Request	Reset actuator to factory settings	R/W	0 = Inactive 1 = Active
2127	bit	Reset Error#2 Request	Reset error code 2 (over torque warning)	R/W	0 = Inactive 1 = Active
2128	bit	Reset Error#7 Request	Reset error code 7 (lack of valve error)	R/W	0 = Inactive 1 = Active