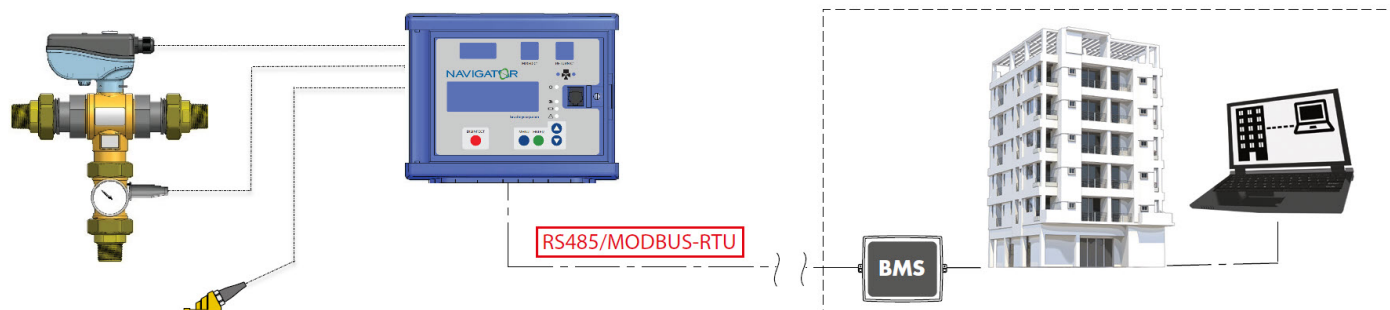


Register

Navigator® Digital Mixing Valves (DMV)



REG	REG (hex)	DESCRIPTION	VALUE	FUNCTION	
				0X03	0X06
0	0000	Product Type Code to define the product	6001	X	
1	0001	BUS address	1...247	X	
2	0002	T mix	(°C)	X	
3	0003	T rec	(°C)	X	
4	0004	T mix	(°F)	X	
5	0005	T rec	(°F)	X	
6	0006	STATUS	0= - 1= regulation 2= disinfection 3= flushing 4= thermal shock 5= alarm	X	
7	0007	PROGRAM	0= Program 0 1= Program 1A 2= Program 1B 3= Program 2	X	X
8	0008	DAY	1...31	X	X
9	0009	MONTH	1...12	X	X
10	000A	YEAR	2017...	X	X
11	000B	HOUR	0...23	X	X
12	000C	MINUTE	0...59	X	X
13	000D	LANGUAGE	0= IT 1= EN 2= FR 3= DE 4= ES 5= P 6= NL 7= SL 8= HR 9= SR 10= RO	X	X
14	000E	TIME ON - h (disinfection start hour)	0...23	X	X
15	000F	TIME ON - min (disinfection start minute)	0...59	X	X
16	0010	TIME OFF - h (disinfection stop hour)	0...23	X	X

REG	REG (hex)	DESCRIPTION	VALUE				FUNCTION	
							0X03	0X06
17	0011	TIME OFF - min (Disinfection stop minute)	0...59				X	X
18	0012	TIME wait (time reading recirc. temperature)	1...255 (min)				X	X
19	0013	TIME min (MINIMUM DISINFECTION TIME)	0...254 (min)				X	X
20	0014	TIME flux (after ending the disinfection)	0...2550 (sec)				X	X
21	0015	TIME shock (time of duration shock)	1...4320 (min)				X	X
22	0016	SET REG (mixing regulation set temperature)	20...85 (°C)				X	X
23	0017	SET DIS (disinfection set temperature)	40...85 (°C)				X	X
24	0018	SET REC (recirculation set temperature)	40...85 (°C)				X	X
25	0019	SET SHOCK (shock set temperature)	30...85 (°C)				X	X
26	001A	SET Tmax (max. limit of range set temperature)	50...90 (°C)				X	X
27	001B	SET REG (mixing regulation set temperature)	68...185 (°F)				X	X
28	001C	SET DIS (disinfection set temperature)	104...185 (°F)				X	X
29	001D	SET REC (recirculation set temperature)	104...185 (°F)				X	X
30	001E	SET SHOCK (shock set temperature)	86...185 (°F)				X	X
31	001F	SET Tmax (max. limit of range set temperature)	122...194 (°F)				X	X
32	0020	Daily Disinfection	0= Monday 1= Tuesday 2= Wednesday 3= Thursday 4= Friday 5= Saturday 6= Sunday				X	X
33	0021	Active functions	b0: Presence of recir. probe b1: Anticlog b2:0 b3:0= Legal hour OFF b4: Internatiol system of unit b5: LED display enable	b2:1 b3:0= Legal hour EU	b2:0 b3:1= Legal hour US	b2:1 b3:1= Legal hour CUST	X	X
34	0022	Forced activities	0= Shock activation 1= Pin-code reset 2= Disinfection reset 3= Alarm reset 4: Historical data reset					X
35	0023	TIME motor (from close to full open)	8...320 (sec)				X	X
36	0024	TIME play (delay of time actuator)	1...255 (sec)				X	X
37	0025	START Sunday legal hour	-3...3				X	X
38	0026	START Month legal hour	1...12				X	X
39	0027	END Sunday legal hour	-3...3				X	X
40	0028	END Month legal hour	1...12				X	X

MODBUS Functions

Function 0x03 – Read Holding Registers

Used to read one or more parameters (the size of every parameter is 16 bit)

The frame has the following structure.

dev. Addr.	func	start addr H	start addr L	N.regs H	N.regs L	CRC16H	CRC16L
HH	03	HH	HH	00	HH	HH	HH

dev. Addr. – Address of the device on the RS485 net (1–247)

Func – Functions Code (3)

start addr H – MSByte of the address of the parameter

start addr L – LSByte of the address of the parameter

N.regs H – MSByte of the number of registers to read (always 0)

N.regs L – LSByte of the number of registers to read

CRC16H – MSByte of CRC16

CRC16L – LSByte of CRC16

If during a multiple reading request, a non-allowable quantity of registers is specified, the device will answer with the exception code: 0x02 (ILLEGAL DATA ADDRESS).

Function 0x06 – Write Single Register

Used to write a single parameter (16 bit)

The frame has the following structure.

dev. Addr.	func	Reg.addr H	Reg.addr L	Reg. val. H	Reg. val. L	CRC16H	CRC16L
HH	06	HH	HH	HH	HH	HH	HH

dev. Addr. – Address of the device on the RS485 net (1–247)

Func – Functions Code (6)

Reg.addr H – MSByte of the address of the parameter

Reg.addr L – LSByte of the address of the parameter

Reg. val. H – MSByte of the value of the parameter

Reg. val. L – LSByte of the value of the parameter

CRC16H – MSByte of CRC16

CRC16L – LSByte of CRC16

The specified value is not accepted (exception code 2) if it is not consistent with the parameter range or if it not consistent with the current state of the device. Example: Day = 31 rejected if Month = 4, Month = 4 rejected if day = 31.