

Specification

Supply voltage	24Vac/dc ±10%
Supply current	8VA (331mA @24Vac)
Inputs	<i>8 x Universal (12-bit resolution)</i>
	0-10Vdc
	Thermistor, type B (10K4A1)
	On/off (VFC)
	4-20mA
2 x Digital	Normally open/closed or direct/reverse
	Outputs
	<i>2 x Universal (12-bit resolution)</i>
	0-10Vdc
	Pulsed signal (20mA drive)
	On/off
	4-20mA
	<i>2 x Analogue (12-bit resolution)</i>
	0-10Vdc
	Normally open/closed, independent
	common per relay, 5(4) @24V
BACnet	BACnet MS/TP (BAS-C): 9k6, 19k2, 38k4 or 76k8 bps or auto baud rate detection

Modbus	Modbus RTU Slave @ 9k6, 19k2, 38k4 or 57k6
	Selectable parity and stop bit conf
	No parity, 2 stop bit
	Even parity, 1 stop bit
	Odd parity, 1 stop bit
Connections:	
Communication	0.2mm ² twisted-shield cable
Electrical	0.8mm ² at least
Ambient:	
Temperature	0 to +50°C
RH	5 to 95% non-condensing
Housing:	
Material	ABS
Dimensions	160 x 126 x 57mm
Protection	IP30
Country of origin	Canada



The products referred to in this data sheet meet the requirements of EU 2014/30/EU

WEEE Directive:



At the end of the products useful life please dispose as per the local regulations. Do not dispose of with normal household waste. Do not burn.

Network Connections

Please note that all jumper settings must also be set to the same value through BACnet or Modbus. The following is a list of conditions and additional BACnet or Modbus objects.

Universal Inputs (AI1-AI8)

- When the jumper is set to Thermistor, you can select either sensor °C or sensor °F, or you can set the input as a digital on/off input.
- If the universal input is set as a digital on/off input, you can also set the polarity to direct or reverse. For example, in Reverse an "on" signal would be recognized as an "off" signal.
- When the jumper is set to 0-10Vdc, you can also set the range to 0-5Vdc.

Digital Inputs (DI1-DI2)

- You can set the polarity to direct or reverse. For example, in Reverse an "on" signal would be recognized as an "off" signal.

Universal/Analogue Outputs (AO1-AO4)

- You can set the polarity to direct or reverse. For example, in reverse the output range would be 10-0Vdc instead of 0-10Vdc. The polarity applies to all settings 0-10Vdc, 4-20mA, on/off and pulsed.
- You can also set the outputs to pulsed or digital on/off.
- A fixed output value can only be modified via BACnet when the override switch is in the "Automatic" position.

Digital Outputs (DO1-DO6)

- A fixed output (open/closed) can only be modified via BACnet when the override switch is in the "Automatic" position.
- The displayed text can be set to either Open/Closed, On/Off, or Alarm/Normal (BACnet only).

Supervised Outputs

- All outputs are fully supervised via BACnet. This provides the actual state of the output including any manual overrides done using the on-board switches.

LED Indication

Function	LED status	Description
Power	On	Input voltage normal
	Off	No power
Status	Flashing	Normal operation (watchdog)
RX/TX (BACnet and Modbus)	Flashing	Receiving (RX) and/or transmitting (TX) data
Input Status	On	Input On
	Off	Input Off
	Flashing	Input not connected (thermistor setting only)
	Analogue	When Universal Inputs are set to analogue values (Vdc, mA, or 10KΩ); the LED intensity corresponds to the input value. For example: At 10Vdc, the LED will be fully on. At 5Vdc, the LED will be at 50% intensity. At 0 Vdc, the LED will be off
Output Status	On	Activated
	Off	Deactivated
	Flashing	Output pulsed
	Analogue	When Universal and Analogue outputs are set to analogue values (Vdc or mA); the LED intensity corresponds to the output value. For example: At 10Vdc, the LED will be fully on. At 5Vdc, the LED will be at 50% intensity. At 0Vdc, the LED will be off.

MAC Address Settings

Use DS2 for setting MAC address for BACnet and Modbus

BACnet:

Default setting: All switches OFF (MAC address = 0)

If you do not change device instance in program mode, it will be automatically modified according to the MAC address.

MAC Address	DS.1 = 1	DS.2 = 2	DS.3 = 4	DS.4 = 8	DS.5 = 16	DS.6 = 32	DS.7 = 64	DS.8 = 128	Default Device Instance
0	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	662000
1	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	662001
2	OFF	ON	OFF	OFF	OFF	OFF	OFF	OFF	662002
3	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF	662003
4	OFF	OFF	ON	OFF	OFF	OFF	OFF	OFF	662004
...
126	OFF	ON	ON	ON	ON	ON	ON	OFF	662126
...
254	OFF	ON	ON	ON	ON	ON	ON	ON	662254

Modbus:

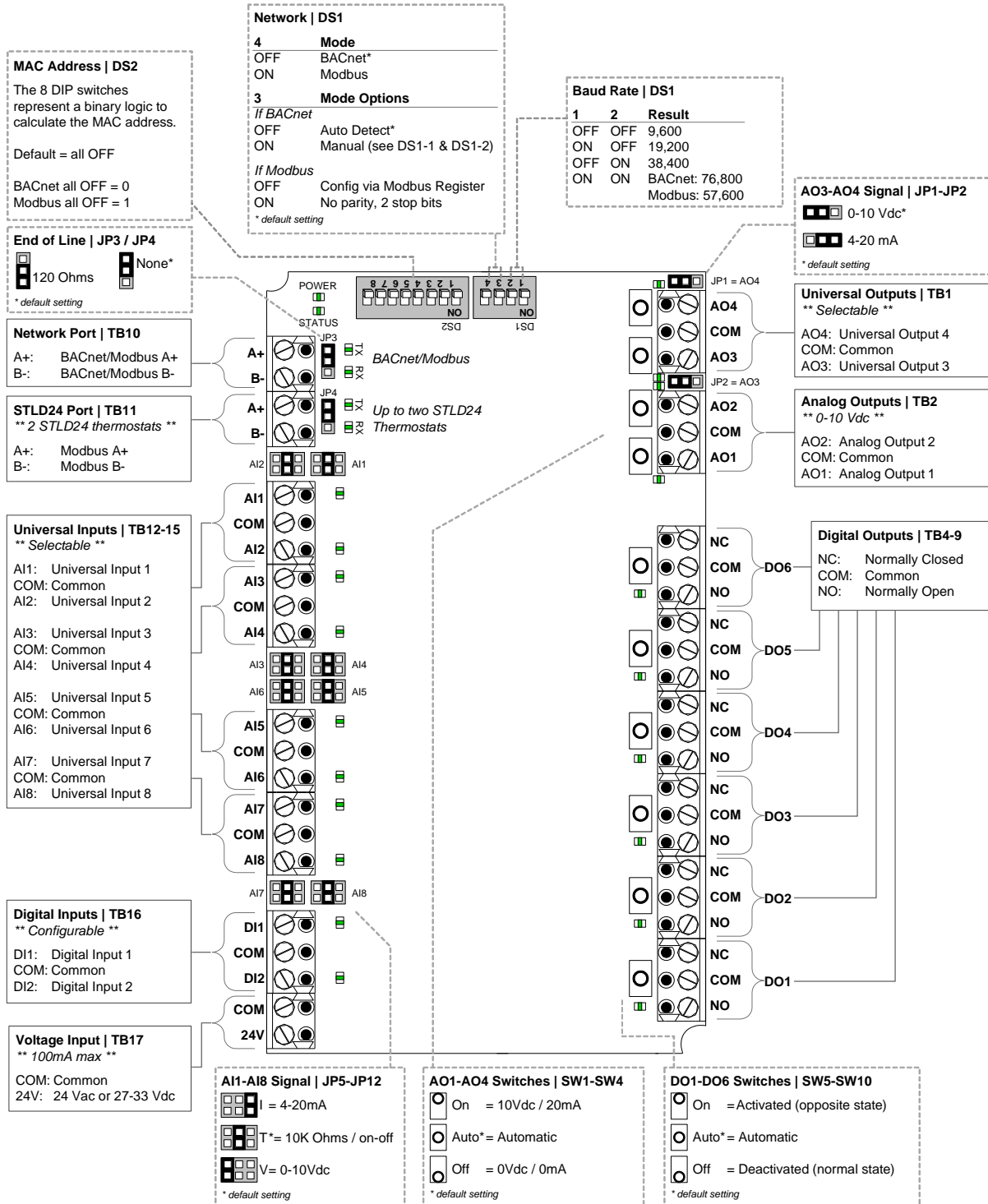
Default setting: All switches OFF (MAC address = 0)

MAC address is binary value plus 1

MAC Address	DS.1 = 1	DS.2 = 2	DS.3 = 4	DS.4 = 8	DS.5 = 16	DS.6 = 32	DS.7 = 64	DS.8 = 128
0+1 = 1	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
1+1 = 2	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF
2+1 = 3	OFF	ON	OFF	OFF	OFF	OFF	OFF	OFF
3+1 = 4	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF
4+1 = 5	OFF	OFF	ON	OFF	OFF	OFF	OFF	OFF
...
126+1 = 127	OFF	ON	ON	ON	ON	ON	ON	OFF
...
246+1 = 247	OFF	ON	ON	OFF	ON	ON	ON	ON

Installation & Configuration

Please make sure that all jumper settings are set to the same values as those in the configurable BACnet objects / Modbus register. Some additional configurations are only available via BACnet (see section Network Conditions)



ID ¹	Name	Description	Writable?	Notes (* = default)
AI.1	UniversallInput1	Universal input 1 mode selected by MSV.1	Out of service	0-10Volt or -40-100°C or -40-212°F or 0-1 Resolution 0.01Volt or 0.01°C/0.02°F
AI.2	UniversallInput2	Universal input 2 mode selected by MSV.12	Out of service	0-10Volt or -40-100°C or -40-212°F or 0-1 Resolution 0.01Volt or 0.01°C/0.02°F
AI.3	UniversallInput3	Universal input 3 mode selected by MSV.15	Out of service	0-10Volt or -40-100°C or -40-212°F or 0-1 Resolution 0.01Volt or 0.01°C/0.02°F
AI.4	UniversallInput4	Universal input 4 mode selected by MSV.48	Out of service	0-10Volt or -40-100°C or -40-212°F or 0-1 Resolution 0.01Volt or 0.01°C/0.02°F
AI.5	UniversallInput5	Universal input 5 mode selected by MSV.57	Out of service	0-10Volt or -40-100°C or -40-212°F or 0-1 Resolution 0.01Volt or 0.01°C/0.02°F
AI.6	UniversallInput6	Universal input 6 mode selected by MSV.58	Out of service	0-10Volt or -40-100°C or -40-212°F or 0-1 Resolution 0.01Volt or 0.01°C/0.02°F
AI.7	UniversallInput7	Universal input 7 mode selected by MSV.59	Out of service	0-10Volt or -40-100°C or -40-212°F or 0-1 Resolution 0.01Volt or 0.01°C/0.02°F
AI.8	UniversallInput8	Universal input 8 mode selected by MSV.60	Out of service	0-10Volt or -40-100°C or -40-212°F or 0-1 Resolution 0.01Volt or 0.01°C/0.02°F
AV.52	AnalogueOutput1Min	Min. voltage of analogue output 1	Present Value	0* Volt to AV.54 Resolution 0,1 Volt
AV.53	AnalogueOutput2Min	Min. voltage of analogue output 2	Present Value	0* Volt to AV.55 Resolution 0,1 Volt
AV.54	AnalogueOutput1Max	Max. voltage of analogue output 1	Present Value	AV.52 to 10.0* Volt Resolution 0,1 Volt
AV.55	AnalogueOutput2Max	Max. voltage of analogue output 2	Present Value	AV.53 to 10.0* Volt Resolution 0,1 Volt
AV.72	AnalogueOutput1	Analogue output 1 value	Present Value	0-100% Resolution 0,1%
AV.73	AnalogueOutput2	Analogue output 2 value	Present Value	0-100% Resolution 0,1%
AV.118	AnalogueOutput3Min	Min. voltage of analogue output 3	Present Value	0* Volt to AV.120 Resolution 0,1 Volt
AV.119	AnalogueOutput4Min	Min. voltage of analogue output 4	Present Value	0* Volt to AV.121 Resolution 0,1 Volt
AV.120	AnalogueOutput3Max	Max. voltage of analogue output 3	Present Value	AV.118 to 10.0* Volt Resolution 0,1 Volt
AV.121	AnalogueOutput4Max	Max. voltage of analogue output 4	Present Value	AV.119 to 10.0* Volt Resolution 0,1 Volt
AV.124	AnalogueOutput3	Analogue output 3 value	Present Value	0-100% Resolution 1%
AV.125	AnalogueOutput4	Analogue output 4 value	Present Value	0-100% Resolution 1%
AV.226	UniversallInput1Offset	Universal input 1 offset	Present Value	-5.00 to 5.00 °C/°F/Volt/mA (default 0*) Resolution: 0.01 °C/°F/Volt/mA
AV.227	UniversallInput2Offset	Universal input 2 offset	Present Value	-5.00 to 5.00 °C/°F/Volt/mA (default 0*) Resolution: 0.01 °C/°F/Volt/mA
AV.228	UniversallInput3Offset	Universal input 3 offset	Present Value	-5.00 to 5.00 °C/°F/Volt/mA (default 0*) Resolution: 0.01 °C/°F/Volt/mA
AV.229	UniversallInput4Offset	Universal input 4 offset	Present Value	-5.00 to 5.00 °C/°F/Volt/mA (default 0*) Resolution: 0.01 °C/°F/Volt/mA
AV.230	UniversallInput5Offset	Universal input 5 offset	Present Value	-5.00 to 5.00 °C/°F/Volt/mA (default 0*) Resolution: 0.01 °C/°F/Volt/mA
AV.231	UniversallInput6Offset	Universal input 6 offset	Present Value	-5.00 to 5.00 °C/°F/Volt/mA (default 0*) Resolution: 0.01 °C/°F/Volt/mA

AV.232	UniversalInput7Offset	Universal input 7 offset	Present Value	-5.00 to 5.00 °C/°F/Volt/mA (default 0*) Resolution: 0.01 °C/°F/Volt/mA
AV.233	UniversalInput8Offset	Universal input 8 offset	Present Value	-5.00 to 5.00 °C/°F/Volt/mA (default 0*) Resolution: 0.01 °C/°F/Volt/mA
AV.468	CopyCfgStartAdd	Copy configuration start address	Present Value	0-254 Address of first SC-IO-24 to copy Available only if BV.101 is set to No
AV.469	CopyCfgEndAdd	Copy configuration end address	Present Value	AV.468 – (AV.468 + 64) Address of last IO-SC-24 to copy Available only if BV.101 is set to No
AV.470	CopyCfgResult ²	Copy configuration result	Present Value	AV.468 – AV.469 Result of copy is available on Description property and is available only if BV.101 is set to Yes. Results: Succeed, Prog_Error, Type_Error, Model_Error, FW_Error, Mem_Error, Size_Error, Comm_Error, SlaveDevice, InProgress, AllSucceed

ID ¹	Name	Description	Writable?	Notes (* = default)
BI.1	DigitalInput1	Digital input 1 status	Out of service	0= Open* 1= Close Text depends of selection in MSV.76
BI.2	DigitalInput2	Digital input 2 status	Out of service	0= Open* 1= Close Text depends of selection in MSV.77
BV.22	ContactOutput1	Digital output 1 status	Present Value	0= Open / Off / Normal * 1= Close / On / Marche / Alarm Text depends of selection in MSV.66
BV.23	ContactOutput2	Digital output 2 status	Present Value	0= Open / Off / Normal * 1= Close / On / Alarm Text depends of selection in MSV.67
BV.24	ContactOutput3	Digital output 3 status	Present Value	0= Open / Off / Normal * 1= Close / On / Marche / Alarm Text depends of selection in MSV.68
BV.25	ContactOutput4	Digital output 4 status	Present Value	0= Open / Off / Normal * 1= Close / On / Marche / Alarm Text depends of selection in MSV.69
BV.26	ContactOutput5	Digital output 5 status	Present Value	0= Open / Off / Normal * 1= Close / On / Marche / Alarm Text depends of selection in MSV.70
BV.27	ContactOutput6	Digital output 6 status	Present Value	0= Open / Off / Normal * 1= Close / On / Marche / Alarm Text depends of selection in MSV.71
BV.33	DigitalInput1Polarity	Polarity of digital input 1	Present Value	0= Direct * 1= Reverse
BV.34	DigitalInput2Polarity	Polarity of digital input 2	Present Value	0= Direct * 1= Reverse
BV.66	AnalogueOutput1Direction	Polarity of analogue output 1	Present Value	0= Direct * 1= Reverse
BV.67	AnalogueOutput2Direction	Polarity of analogue output 2	Present Value	0= Direct * 1= Reverse

BV.68	AnalogueOutput3Direction	Polarity of analogue output 3	Present Value	0= Direct * 1= Reverse
BV.69	AnalogueOutput4Direction	Polarity of analogue output 4	Present Value	0= Direct * 1= Reverse
BV.93	UI1_DI_Polarity	Polarity of universal input 1 when used in digital input mode	Present Value	0= Direct * 1= Reverse
BV.94	UI2_DI_Polarity	Polarity of universal input 2 when used in digital input mode	Present Value	0= Direct * 1= Reverse
BV.95	UI3_DI_Polarity	Polarity of universal input 3 when used in digital input mode	Present Value	0= Direct * 1= Reverse
BV.96	UI4_DI_Polarity	Polarity of universal input 4 when used in digital input mode	Present Value	0= Direct * 1= Reverse
BV.97	UI5_DI_Polarity	Polarity of universal input 5 when used in digital input mode	Present Value	0= Direct * 1= Reverse
BV.98	UI6_DI_Polarity	Polarity of universal input 6 when used in digital input mode	Present Value	0= Direct * 1= Reverse
BV.99	UI7_DI_Polarity	Polarity of universal input 7 when used in digital input mode	Present Value	0= Direct * 1= Reverse
BV.100	UI8_DI_Polarity	Polarity of universal input 8 when used in digital input mode	Present Value	0= Direct * 1= Reverse
BV.101	CopyCfgExecute	Start or stop copy configuration	Present Value	0= No * 1= Yes Start copy and give results, must be reset by user.

¹ ID is equal to ObjectType.Instance

² Write address in present value, result will be available in description

ID ¹	Name	Description	Writable?	Notes (* = default)
MSV.1	UniversalInput1Function	Selected analogue input 1 mode	Present Value	1= _Sensor_C * 2= _Sensor_F 3= 0_10Volt 4= DigitalInput 5= 0_5Volt 6= 4_20mA
MSV.12	UniversalInput2Function	Selected analogue input 2 mode	Present Value	1= _Sensor_C * 2= _Sensor_F 3= 0_10Volt 4= DigitalInput 5= 0_5Volt 6= 4_20mA
MSV.15	UniversalInput3Function	Selected analogue input 3 mode	Present Value	1= _Sensor_C * 2= _Sensor_F 3= 0_10Volt 4= DigitalInput 5= 0_5Volt 6= 4_20mA

MSV.48	UniversalInput4Function	Selected analogue input 4 mode	Present Value	1= _Sensor_C * 2= _Sensor_F 3= 0_10Volt 4= DigitalInput 5= 0_5Volt 6= 4_20mA
MSV.54	AnalogueOutput1Mode	Select analogue output 1 mode	Present Value	1= Analogue * 2= On_Off 3= Pulsing
MSV.55	AnalogueOutput2Mode	Select analogue output 2 mode	Present Value	1= Analogue * 2= On_Off 3= Pulsing
MSV.57	UniversalInput5Function	Selected analogue input 5 mode	Present Value	1= _Sensor_C * 2= _Sensor_F 3= 0_10Volt 4= DigitalInput 5= 0_5Volt 6= 4_20mA
MSV.58	UniversalInput6Function	Selected analogue input 6 mode	Present Value	1= _Sensor_C * 2= _Sensor_F 3= 0_10Volt 4= DigitalInput 5= 0_5Volt 6= 4_20mA
MSV.59	UniversalInput7Function	Selected analogue input 7 mode	Present Value	1= _Sensor_C * 2= _Sensor_F 3= 0_10Volt 4= DigitalInput 5= 0_5Volt 6= 4_20mA
MSV.60	UniversalInput8Function	Selected analogue input 8 mode	Present Value	1= _Sensor_C * 2= _Sensor_F 3= 0_10Volt 4= DigitalInput 5= 0_5Volt 6= 4_20mA
MSV.66	ContactOutput1Text	Contact output 1 inactive & active text	Present Value	1= Open_Close * 2= Ouvert_Fermé 3= On_Off 4= Marche_Arret 5= Alarm_Normal
MSV.67	ContactOutput2Text	Contact output 2 inactive & active text	Present Value	1= Open_Close * 2= Ouvert_Fermé 3= On_Off 4= Marche_Arret 5= Alarm_Normal
MSV.68	ContactOutput3Text	Contact output 3 inactive & active text	Present Value	1= Open_Close * 2= Ouvert_Fermé 3= On_Off 4= Marche_Arret 5= Alarm_Normal

MSV.69	ContactOutput4Text	Contact output 4 inactive & active text	Present Value	1= Open_Close * 2= Ouvert_Fermé 3= On_Off 4= Marche_Arret 5= Alarm_Normal
MSV.70	ContactOutput5Text	Contact output 5 inactive & active text	Present Value	1= Open_Close * 2= Ouvert_Fermé 3= On_Off 4= Marche_Arret 5= Alarm_Normal
MSV.71	ContactOutput6Text	Contact output 6 inactive & active text	Present Value	1= Open_Close * 2= Ouvert_Fermé 3= On_Off 4= Marche_Arret 5= Alarm_Normal
MSV.76	DigitalInput1Text	Digital input 1 inactive & active text	Present Value	1= Open_Close * 2= Ouvert_Fermé
MSV.77	DigitalInput2Text	Digital input 2 inactive & active text	Present Value	1= Open_Close * 2= Ouvert_Fermé
MSV.81	AnalogueOutput3Mode	Select analogue output 3 mode	Present Value	1= Analogue * 2= On_Off 3= Pulsing 4= 4-20mA
MSV.82	AnalogueOutput4Mode	Select analogue output 4 mode	Present Value	1= Analogue * 2= On_Off 3= Pulsing 4= 4-20mA

Modbus Register

- Register address
As per protocol base (base 0); for PLC add 1 to protocol base.
As per holding register (base 40001)
- Functions:
03 Read Holding Register
06 Write Single Register
16 Write Multiple Registers
- Error Codes:
02 Illegal Data Address
03 Illegal Value
06 Slave Device Busy
- W = Writable register, [blank] = read only.
- No Real number in ModBus register, use scale to calculate real number. Register = Real number * Scale => Real number = Register / Scale. Scale could be 1, 10 or 100
- Attention when writing a register that contains a bit string. If bit is writable (conditional or not), the write will always be accepted. If bit is reserved or not writable, the write will be ignored and will keep its actual state.

Protocol Base	Holding Register	Description	Data Type	MSB/LSB		Units/Values	Writable	Default Value	
								MB	LB
0	40001	MSB = Sontay Device ID LSB = MAC Address	Unsigned	105 (69h)	[1..247] (1h- F7h)	* MAC address is writable if all DIP switches of DS2 are OFF.	W*	69h	1h
1	40002	Device Baud Rate	Unsigned Scale 0.01	[96] [192] [384] [576]	9,600 19,200 38,400 57,600		W	96	
2	40003	COM Port Configuration IMPORTANT: The default value is "no parity, 2 stop bits". To change the value, you must set DIP switch DS1-3 to OFF. If set to ON, it will always remain at the default value. Refer to Connections and Configurations on page 3	Unsigned	[0..2]	0 = no parity, 2 stop bits 1 = even parity, 1 stop bit 2 = odd parity, 1 stop bit		W	0	

Protocol Base	Holding Register	Description	Data Type	MSB/LSB		Units/Values	Writable	Default Value	
				char 8	char 7			MB	LB
3	40004	Product Name (characters 8 & 7)	2 x ASCII	char 8	char 7	Valid ASCII character: 32 (20h) – 122 (7ah), Empty = 0	W	43h [C]	40h [M]

4	40005	Product Name (characters 6 & 5)	2 x ASCII	char 6	char 5	Valid ASCII character: 32 (20h) – 122 (7ah), Empty = 0	W	40h [M]	42h [B]
5	40006	Product Name (characters 4 & 3)	2 x ASCII	char 4	char 3	Valid ASCII character: 32 (20h) – 122 (7ah), Empty = 0	W	31h [I]	30h [O]
6	40007	Product Name (characters 2 & 1)	2 x ASCII	char 2	char 1	Valid ASCII character: 32 (20h) – 122 (7ah), Empty = 0	W	36h [G]	20h []
7	40008	Firmware Version	Unsigned Scale 100	106		1.06		106	
8	40009	Application Version	Unsigned Scale 100	103		1.03		103	
9	40010	System Status 1	Bit String	[B0..B15]	0 = Normal 1 = Fault ----- B0 = System operation			0000, 0001, 1111, 1110b	
10	40011	System Status 2	Bit String	[B0..B15]	Always 0			0000, 0000, 0000, 0000b	
11	40012	Analogue Input 1	T_C: Type: Signed, Scale:100, Unit:°C Range:-40.00 - 100.00 °C, Resolution: 0.01 T_F: Type: Signed, Scale:100, Unit:°F, Range:-40.00 – 212.00 °F, Resolution: 0.01 0-10V: Type: Unsigned, Scale:100, Unit: Volt, Range:0-10,00V, Resolution: 0.01 DI: Type: Unsigned, Scale:1, Unit: n/a, Range: 0-1, Resolution : 1 0-5V: Type: Unsigned, Scale:100, Unit: Volt, Range:0-5.00V, Resolution : 0,01 4-20mA: Type: Unsigned, Scale:100, Unit: mA, Range:4.00 – 20.00 mA, Resolution : 0,01 Note: 32767 (7FFFh) = Input in fault; for temperature T_C & T_F modes only					32767	
12	40013	Analogue Input 2						32767	
13	40014	Analogue Input 3						32767	
14	40015	Analogue Input 4						32767	
15	40016	Analogue Input 5						32767	
16	40017	Analogue Input 6						32767	
17	40018	Analogue Input 7						32767	
18	40019	Analogue Input 8						32767	
19	40020	Digital Input	Bit String	[B0..B1]	B0 = DI1 B1 = DI2			0000, 0000, 0000, 0000b	
20	40021	Analogue Output 1	Unsigned	[0..1000]	Unit: %, Range: 0-100,0%, Resolution : 0,1		W	0	

21	40022	Analogue Output 2	Scale 10				0
22	40023	Analogue Output 3					0
23	40024	Analogue Output 4					0
24	40025	Relay Output	Bit String	[B0..B6]	B0 = Relay 1 B1 = Relay 2 B2 = Relay 3 B3 = Relay 4 B4 = Relay 5 B5 = Relay 6	W	0000, 0000, 0000, 0000b
25	40026	Output Overwrite Status <i>Indicates that the output is overridden by the hardware switch (SW5-SW10).</i>	Bit String	[B0..B10]	B0 = Relay 1 B1 = Relay 2 B2 = Relay 3 B3 = Relay 4 B4 = Relay 5 B5 = Relay 6 B6 = AO1 B7 = AO2 B8 = AO3 B9 = AO4		0000, 0000, 0000, 0000b
26	40027	Universal Input 1 Function	Unsigned	[1..4]	1 = Temperature °C 2 = Temperature °F 3 = 0-10V 4 = Digital Input 5 = 0-5V 6 = 4-20mA	W	1
27	40028	Universal Input 2 Function					1
28	40029	Universal Input 3 Function					1
29	40030	Universal Input 4 Function					1
30	40031	Universal Input 5 Function					1
31	40032	Universal Input 6 Function					1
32	40033	Universal Input 7 Function					1
33	40034	Universal Input 8 Function					1
34	40035	Universal Input 1 Offset	Signed Scale 100	[0..100]	Range: +/- 5,00, Resolution : 0,10	W	0
35	40036	Universal Input 2 Offset					0
36	40037	Universal Input 3 Offset					0

37	40038	Universal Input 4 Offset					0
38	40039	Universal Input 5 Offset					0
39	40040	Universal Input 6 Offset					0
40	40041	Universal Input 7 Offset					0
41	40042	Universal Input 8 Offset					0
42	40043	Analogue Output 1 Mode	Unsigned	[1..4]	1 = Analogue 2 = On/Off 3 = Pulse 4 = 4-20mA	W	1
43	40044	Analogue Output 1 Minimum Voltage	Signed Scale 10	[0..100]	Unit: Volt, Range: 0 V - Register 44, Resolution : 0,1	W	0
44	40045	Analogue Output 1 Maximum Voltage			Unit: Volt, Range: Register 43 - 10.0V, Resolution : 0,1		100
45	40046	Analogue Output 2 Mode	Unsigned	[1..4]	1 = Analogue 2 = On/Off 3 = Pulse 4 = 4-20mA	W	1
46	40047	Analogue Output 2 Minimum Voltage	Signed Scale 10	[0..100]	Unit: Volt, Range: 0 V - Register 47, Resolution : 0,1	W	0
47	40048	Analogue Output 2 Maximum Voltage			Unit: Volt, Range: Register 46 - 10.0V, Resolution : 0,1		100
48	40049	Analogue Output 3 Mode	Unsigned	[1..4]	1 = Analogue 2 = On/Off 3 = Pulse 4 = 4-20mA	W	1
49	40050	Analogue Output 3 Minimum Voltage	Signed Scale 10	[0..100]	Unit: Volt, Range: 0 V - Register 50, Resolution : 0,1	W	0
50	40051	Analogue Output 3 Maximum Voltage			Unit: Volt, Range: Register 49 - 10.0V, Resolution : 0,1		100
51	40052	Analogue Output 4 Mode	Unsigned	[1..4]	1 = Analogue 2 = On/Off 3 = Pulse 4 = 4-20mA	W	1
52	40053	Analogue Output 4 Minimum Voltage	Signed Scale 10	[0..100]	Unit: Volt, Range: 0 V - Register 53, Resolution : 0,1	W	0
53	40054	Analogue Output 4 Maximum Voltage			Unit: Volt, Range: Register 52 - 10.0V, Resolution : 0,1		100
54	40055	System Options	Bit String	[B0..B13]	0 = Direct	W	0000, 0000, 0000,

		<i>* = digital input mode only</i>			1 = Reverse ----- B0 = AO1 polarity B1 = AO2 polarity B2 = AO3 polarity B3 = AO4 polarity B4 = AI1 polarity * B5 = AI2 polarity * B6 = AI3 polarity * B7 = AI4 polarity * B8 = AI5 polarity * B9 = AI6 polarity * B10 = AI7 polarity * B11 = AI8 polarity * B12 = DI1 polarity B13 = DI2 polarity		0000b
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Whilst every effort has been made to ensure the accuracy of this specification, Sontay cannot accept responsibility for damage, injury, loss or expense from errors or omissions. In the interest of technical improvement, this specification may be altered without notice.

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