

VBus BACnet Objects

Object	Description	Units	Deltasol-M, Vitosolic 200	SCU224, SCU124, Deltasol BS Plus	BS 1/2/3/4	Deltasol-E	Deltasol ES	Deltasol BX	Deltasol MX	Deltasol SKSC3
Analog Output 1	Controls temperature units ¹	-	X	X	X	X	X	X	X	X
Analog Input 1	Temperature Sensor 1	C or F	X	X	X	X	X	X	X	X
Analog Input 2	Temperature Sensor 2	C or F	X	X	X	X	X	X	X	X
Analog Input 3	Temperature Sensor 3	C or F	X	X	X	X	X	X	X	X
Analog Input 4	Temperature Sensor 4	C or F	X	X	X	X	X	X	X	X
Analog Input 5	Temperature Sensor 5	C or F	X	-		X	X	X	X	X
Analog Input 6	Temperature Sensor 6	C or F	X	-		X	X		X	X
Analog Input 7	Temperature Sensor 7	C or F	X	-		X	X		X	X
Analog Input 8	Temperature Sensor 8	C or F	X	-		X	X		X	X
Analog Input 9	Temperature Sensor 9	C or F	X	-		X			X	
Analog Input 10	Temperature Sensor 10	C or F	X	-		X			X	
Analog Input 11	Temperature Sensor 11	C or F	X	-					X	
Analog Input 12	Temperature Sensor 12	C or F	X	-					X	
Analog Input 13	Irradiation	W/m ² , W/ft ²	X	-		X	X		X	X
Analog Input 14	Pulse Counter 1	-	X	-		X				
Analog Input 15	Pulse Counter 2	-	X	-						
Analog Input 16	Error mask sensor open ²	Binary	X	-						X
Analog Input 17	Error mask sensor short ²	Binary	X	-						X
Analog Input 18	Sensor mask ²	Binary	X	-		X				
Analog Input 19	Speed Relay 1	%	X	X	X	X	X	X	X	X
Analog Input 20	Speed Relay 2	%	X	X	X	X	X	X	X	X
Analog Input 21	Speed Relay 3	%	X	-		X	X	X	X	X
Analog Input 22	Speed Relay 4	%	X	-		X		X	X	X
Analog Input 23	Speed Relay 5	%	X	-		X			X	
Analog Input 24	Speed Relay 6	%	X	-		X			X	
Analog Input 25	Speed Relay 7	%	X	-		X			X	
Analog Input 26	Speed Relay 8	%	X	-					X	
Analog Input 27	Speed Relay 9	%	X	-					X	
Analog Input 28	Speed Relay 10	%	X	-					X	
Analog Input 29	Speed Relay 11	%	-	-				X ⁷	X	
Analog Input 30	Speed Relay 12	%	-	-				X ⁷	X	
Analog Input 31	Relay mask ²	Binary	X	X			X			
Analog Input 32	Error mask ²	Binary	X	X	X	X			X	X ⁶
Analog Input 33	Warning mask ²	Binary	X	-						
Analog Input 34	Option Mask / Schema	Binary or Dec.	-	X ³		X ⁵	X ³			
Analog Input 35	Heat Quantity in Wh ⁴	Wh	-	X	X		X	X		X
Analog Input 36	Heat Quantity in KWh ⁴	Wh	-	X	X		X	X		X
Analog Input 37	Heat Quantity in MWh ⁴	Wh	-	X	X		X	X		X
Analog Input 38	Operating Hours 1	Hours	-	X	X		X	X		
Analog Input 39	Operating Hours 2	Hours	-	X	X		X	X		
Analog Input 40	Operating Hours 3	Hours					X	X		
Analog Input 41	Operating Hours 4	Hours					X	X		
Analog Input 42	Operating Hours 5	Hours					X			
Analog Input 43	Operating Hours 6	Hours					X			
Analog Input 44	Zone Supply 1	C or F				X				
Analog Input 45	Zone Supply 2	C or F				X				
Analog Input 46	Zone Supply 3	C or F				X				
Analog Input 47	Zone Supply 4	C or F				X				
Analog Input 48	Zone Status 1	C or F				X				
Analog Input 49	Zone Status 2	C or F				X				
Analog Input 50	Zone Status 3	C or F				X				
Analog Input 51	Zone Status 4	C or F				X				
Analog Input 52	Flow Volume	m ³ /h or gpm					X			X

¹ 0 for Celsius, 1 for Fahrenheit

² Convert to binary

- Bit 0: Sensor/Relay 1 (least significant bit, furthest to the right)
- Bit 1: Sensor/Relay 2
- Etc.

³ Convert to binary:

- Bit 0: Collector cooling, collector 1 (OCX)
- Bit 1: Minimum limitation, collector 1 (OCN)
- Bit 2: Antifreeze, collector 1 (OCF)
- Bit 3: Tube collector special function (OTC)
- Bit 4: Re-cooling function (OREC)
- Bit 5: Heat quantity measurement (OHQM)

⁴ Values roll over when reaching the next base-1000 magnitude (i.e. 999 Wh becomes 0 Wh + 1 kWh.)

⁵ System Arrangement

⁶ Convert to binary:

- Bit 0: Broken sensor
- Bit 1: Short circuit sensor
- Bit 2: DT high
- Bit 3: Warning circulation at night

⁷ Speed Pulse Width Modulation (PWM) 1,2