

CATEGORY		MAIN							MODBUS				DESCRIPTION
Main	Sub	Name	Valid range	Default	Resolution/values	Unit	Volatile	R/RW	Var Type	Address (start)	Address (end)	Data Type	
01. Mode	1. State	ClimStatus	0..5	2	0 = Heating 1 = Cooling 2 = Not defined 3 = Error 4 = Check flow 5 = Flush mode	NA	V	R	Input Register	56		uint	Status of the current working mode
01. Mode	1. State	Integr.	-32768 .. 32767	0	1	NA	V	RW	Holding Register	15		sint	Control loop integrator value
01. Mode	2. Setting	CO Ctrl	0..1	0	0 = Inactive 1 = Active	NA	W	RW	Output Coil	15		bool	Defines whether the valve will automatically change from heating mode to cooling mode and vice-versa depending on the two external temperatures (Tam1 & Tam2)
01. Mode	2. Setting	Ctrl char	0..1	1	0 = Linear 1 = Equal percentage	NA	W	RW	Holding Register	14		uint	Defines whether the control characteristic, i.e. the relation between Y1 and Vsh is linear or equal percentage
01. Mode	2. Setting	Ctrl Sig	0..1	0	0 = Analog mode 1 = Digital mode	NA	W	RW	Output Coil	0		bool	Sets the flow mode of the device to analog (accepts setpoint from external analog input signal) or digital (accepts setpoint from internal parameter). When in Room Control this settings determines whether Tsetadj is being read from input Text1 (analog) or can be written by the buscommunication (digital) After Ctrl Sig is changed, the control loop state is reset
01. Mode	2. Setting	Flush	0..1	1	0 = Inactive 1 = Active	NA	W	RW	Output Coil	8		bool	If 1 then device is in commissioning mode, if 0 in another mode. Can be written to force the device in commissioning mode.
01. Mode	2. Setting	Flush 6Way	0..2	0	0 = Inactive 1 = Flush cooling 2 = Flush heating	NA	W	RW	Holding Register	76		uint	In 6 way Dynamx valves (DXN6), The "Flush 6 way" parameter will replace the default "Flush" parameter. Setting to Flush cooling will force the device in commissioning mode on the cooling port (Depend on PortConnection variable), setting to Flush heating will force the device in commissioning mode on the heating port. If it's inactive, the valve will follow the set points
01. Mode	2. Setting	Meas Sig	0..1	0	0 = Analog mode 1 = Digital mode	NA	W	RW	Output Coil	17		bool	Set Meas Sig in analog mode (by default) will accept values on Troom from external input signal. In digital mode values for Troom will be defined via the communication bus
01. Mode	2. Setting	Open loop	0..1	0	0 = Closed loop 1 = Open loop	NA	W	RW	Output Coil	6		bool	Enables or disables the flow control loop.
01. Mode	2. Setting	Sys type	0..7	NA	0 = Heating 1 = Cooling 2 = Climate 4P 3 = Room control heating 4 = Room control cooling 5 = Room control climate ceiling 6 = Dp heating 7 = Dp cooling	NA	W	RW	Holding Register	25		uint	The mode will determine whether the energy consumption will be added to the heating energy variable EnerHeat or the cooling energy variable EnerCool.
02. Device	1. Hydraulic	Area		NA	GPM (US): 0,001 Other: 1	sq in mm²	C	R	Input Register	26		uint	Inner area op the pipe
02. Device	1. Hydraulic	DN	GPM (US): 0,375..6 Other: 15..200	NA	GPM (US): 0,001 Other: 1	NPS inch DN mm	C	R	Input Register	25		uint	Normalized NPS or normalized DN-dimension of the pipe (Depending of Vunit)
02. Device	1. Hydraulic	KVS		NA	0,01	cf. Vunit m³/h or US Gpm	C	R	Input Register	50	51	uint32	Kvs or CV value of the device, depending on the selected unit. CV for US Gpm, Kvs for all other units.

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02. Device	1. Hydraulic	Port Conn	0..1	0	0 = Port 1 Cool - Port 2 Heat 1 = Port 1 Heat - Port 2 Cool	NA	W	RW	Output Coil	16		bool	Register used only with 6 way valves (DXN6). Set the Port Connection to 0 will define the Port 1 (left side if the base of the T shape is pointing to you) for cooling and Port 2 (right side if the base of the T shape is pointing to you) for heating, otherwise if it's set to 0, it will define the Port1 for heating and Port 2 for cooling.
02. Device	1. Hydraulic	Treturn	0..1	1	0 = Tam1 on supply 1 = Tam1 on return	NA	W	RW	Output Coil	7		bool	On DXC devices Tam1 is built in the valve, on DXM and DXU it's outside the valve. This parameter is used to determine which temperature sensor is used on the supply and which on the return pipes. It's usefull if the user wants to activate the change over function.
02. Device	1. Hydraulic	Vnom					V	R	Input Register	104	105	float	
02. Device	1. Hydraulic	Vrange	0..4	NA	Vrange=0 → Vnom: 0 .. 1.5m³/h Vrange=1 → Vnom: 0 .. 15m³/h Vrange=2 → Vnom: 0..50m³/h Vrange=3 → Vnom: 0..250m³/h Vrange=4 → Vnom: 0..461m³/h	NA	C	R	Input Register	73		uint	Selects the range and resolution of variable Vnom in order to aid the fixed point calculations of floating point number.
02. Device	2. Identific	DeviceFreeText	20 text characters	-1	1 character	NA	W	RW	Holding Register	301	310	string	20 characters that can be set as free text.
02. Device	2. Identific	DeviceLocation	12 text characters	-1	1 character	NA	W	RW	Holding Register	327	332	string	12 charaters to specify the location of the bacnet device.
02. Device	2. Identific	DeviceName	12 text characters	-1	1 character	NA	W	RW	Holding Register	320	326	string	Device Name for Bacnet Devices.
02. Device	2. Identific	ObjectIdentifier	0.. 4194303	-1	1	NA	C	RW	Holding Register	85	86	uint32	Unique Identifier of a bacnet device.
02. Device	2. Identific	ObjectName	20 text characters	-1	1 character	NA	W	RW	Holding Register	311	320	string	Object Name for Bacnet Devices
02. Device	2. Identific	ProdType	Free text	NA	20 byte string, A..Z/0..9	NA	C	R	Input Register	5	14	Free Text	ASCII representation of hardware version= HW type & revision number.
02. Device	2. Identific	SN	Free text	NA	10 byte string, A..Z/0..9	NA	C	R	Input Register	0	4	Free Text	ASCII representation of serial number
02. Device	2. Identific	SW rev	Free text	NA	20 byte string, A..Z/0..9	NA	C	R	Input Register	15	24	Free Text	ASCII representation of software version= SW type & revision number.
03. Signals	1. Analog	X1	X1min..X1max	NA	0,1	Volt (dc)	V	R	Input Register	93		uint	Flow feedback signal, pressure signal or Controlled signal (by Y2 or Y2 digital) Range: 0..10V, representing a flow/dp/Y2 control between 0 and Vsmax/dpsmax/Y2max by means of a linear or equal percentage relation between voltage and flow/dp/Y2.
03. Signals	1. Analog	X1 max	0..10	10	0,1	Volt (dc)	W	RW	Holding Register	71		uint	The maximum value of X1 representing maximum flow/dp/Y2
03. Signals	1. Analog	X1 min	0..10	0	0,1	Volt (dc)	W	RW	Holding Register	70		uint	The minimum value of X1 representing NO flow/dp/Y2
03. Signals	1. Analog	X1 mode	0..1	0	0 = Analog mode 1 = Digital mode	NA	W	RW	Output Coil	20		bool	In case the X1 output is defined as controlled by Y2, the output will reflect Y2 digital if X1 mode is defined in digital mode.
03. Signals	1. Analog	X1 type	0..2	0	0 = Flow 1 = Pressure 2 = Controlled	NA	W	RW	Holding Register	78		uint	Defines the type of output for X1. It can be a representation of the flow, the differential pressure or controlled by an external device like a CO2 analyser (linked to Y2 or Y2 digital).
03. Signals	1. Analog	X1char	0..1	0	0 = Linear 1 = Equal percentage	NA	W	RW	Holding Register	72		uint	Defines whether the X1 feedback signal should return a value in relation with the flow in a linear or equal percentage way.
03. Signals	1. Analog	Xm	0..10	NA	0,1	Volt (dc)	V	R	Input Register	78		uint	Actuator feedback signal. Range: 0..10V, representing the current actuator position

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03. Signals	1. Analog	Xm PWM	0..100	NA	0,005	%	V	R	Input Register	71		uint	PWM duty cycle of motor control signal (only applicable when PWM control)
03. Signals	1. Analog	Y1	Y1min ..Y1max	NA	0,1	Volt (dc)	V	R	Input Register	69		uint	Setpoint. In analog mode, it's used to define Y1h or Y1c depending on the Sys Type. In digital mode, it's NOT used but it can be readed.
03. Signals	1. Analog	Y1 max	0..10	10	0,1	Volt (dc)	W	RW	Holding Register	7		uint	The maximum value of Y1 at which the flow control loop still operates.
03. Signals	1. Analog	Y1 min	0..10	2	0,1	Volt (dc)	W	RW	Holding Register	6		uint	The minimum value of Y1 at which the flow control loop starts to operate
03. Signals	1. Analog	Y2	Y2min ..Y2max	NA	0,1	Volt (dc)	V	R	Input Register	70		uint	Voltage level of for example dp controller.
03. Signals	1. Analog	Y2 max	0..10	10	0,1	Volt (dc)	W	RW	Holding Register	9		uint	The maximum working voltage on Y2. This value can be used with dp controller.
03. Signals	1. Analog	Y2 min	0..10	2	0,1	Volt (dc)	W	RW	Holding Register	8		uint	The minimum working voltage on Y2. This value can be used with dp controller.
03. Signals	2. Digital	DI1 Type	0..1	0	0 = NC 1 = NO	NA	W	RW	Output Coil	18		bool	It defines the digital input 1 contact has normally open or normally closed. It has no impact if the digital input 1 is defined as a counter.
03. Signals	2. Digital	DI1 Usage	0..8	0	0 = Not used 1 = Wnd open 2 = Away mode 3 = Counter 4 = Night mode 8 = Condens	NA	W	RW	Holding Register	77		uint	Bits 0x000F are used as a bitfield to define DI1 Usage. It can be of type window contact, presence detection, night mode active, condensation. It will have an impact on the SetpModif value. If the user choose the counter, pulses received in the digital input will be recorded into Counter 1 (no effect on SetpModif)
03. Signals	2. Digital	DI1_Counter	0..65535	0		NA	W	R	Input Register	94		uint	Value indicating the total number of pulses for digital input 1.
03. Signals	2. Digital	DI1Active	0..1	NA	0 = Contact NOT active 1 = Contact active	NA	V	R	Discrete Register	6		bool	A digital contact is active (set to 1) if it's NOT in the default state normally closed (NC) or normally open (NO).
03. Signals	2. Digital	DI2 Type	0..1	0	0 = NC 1 = NO	NA	W	RW	Output Coil	19		bool	It defines the digital input 2 contact has normally open or normally closed. It has no impact if the digital input 2 is defined as a counter.
03. Signals	2. Digital	DI2 Usage	0..8	0	0 = Not used 1 = Wnd open 2 = Away mode 3 = Counter 4 = Night mode 8 = Condens	NA	W	RW	Holding Register	77		uint	Bits 0x00F0 are used as a bitfield to define DI2 Usage. It can be of type window contact, presence detection, night mode active, condensation. It will have an impact on the SetpModif value. If the user choose the counter, pulses received in the digital input will be recorded into Counter 2 (no effect on SetpModif)
03. Signals	2. Digital	DI2_Counter	0..65535	0		NA	W	R	Input Register	95		uint	Value indicating the total number of pulses for digital input 2.
03. Signals	2. Digital	DI2Active	0..1	NA	0 = Contact NOT active 1 = Contact active	NA	V	R	Discrete Register	7		bool	A digital contact is active (set to 1) if it's NOT in the default state normally closed (NC) or normally open (NO).
03. Signals	2. Digital	DI3 Type	0..1	0	0 = NC 1 = NO	NA	W	RW	Output Coil	24		bool	It defines the digital input 3 contact has normally open or normally closed. It has no impact if the digital input 3 is defined as a counter.

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03. Signals	2. Digital	DI3 Usage	0..8	0	0 = Not used 1 = Wind open 2 = Away mode 3 = Counter 4 = Night mode 8 = Condens	NA	W	RW	Holding Register	77		uint	Bits 0x0F00 are used as a bitfield to define DI3 Usage. It can be of type window contact, presence detection, night mode active, condensation. It will have an impact on the SetpModif value. If the user choose the counter, pulses received in the digital input will be recorded into Counter 3 (no effect on SetpModif)
03. Signals	2. Digital	DI3_Counter	0..65535	0	-	NA	W	R	Input Register	143		uint	Value indicating the total number of pulses for digital input 3.
03. Signals	2. Digital	DI3Active	0..1	NA	0 = Contact NOT active 1 = Contact active	NA	V	R	Discrete Register	8		bool	A digital contact is active (set to 1) if it's NOT in the default state normally closed (NC) or normally open (NO).
03. Signals	2. Digital	DO1State	0..1	1	0 = DO Off 1 = DO On	NA	W	RW	Output Coil	22		bool	Set/Reset digital output
03. Signals	2. Digital	Y2 digital	Y2min ..Y2max	NA	0,1	Volt (dc)	W	RW	Holding Register	79		uint	Digital voltage of Y2 used to control X1 output. If the user define the X1 Type as "Y2 controlled" and the X1 mode as digital, Y2 digital will be reflected on X1 output.
03. Signals	3. Resistive	Text 1	0..65535	NA	0,1	°C/°F	V	R	Input Register	91		uint	Value of temperature. The type is defined by Text Type (PT500, PT1000 or Res10K).
03. Signals	3. Resistive	Text 2	0..65535	NA	0,1	°C/°F	V	R	Input Register	92		uint	Value of temperature. The type is defined by Text Type (PT500, PT1000 or Res10K).
03. Signals	3. Resistive	Text1 Type	0..2	1	0 = PT500 1 = PT1000 2 = Res10K	bitfield	W	RW	Holding Register	69		sint	Bits 0x00F0 are used as a bitfield to define Text1 resistive type.
03. Signals	3. Resistive	Text2 Type	0..2	1	0 = PT500 1 = PT1000 2 = Res10K	bitfield	W	RW	Holding Register	69		sint	Bits 0x00F0 are used as a bitfield to define Text2 resistive type.
04.	1. Operation	Long_Endianness	0..1	1	0= Little Endian 1 = Big Endian	NA	W	RW	Output Coil	12		bool	If 1, the energy variables output on modbus as big endian. If zero, they output as little endian for backwards compability.
04.Status	1. Operation	BACNet_NetAddr	0..65534	0	1	NA	W	RW	Holding Register	84		uint	The Bacnet Network Number
04.Status	1. Operation	Baudrate	0..2	2	0 = 9600 bit/s 1 = 19200 bit/s 2 = 38400 bit/s	NA	W	RW	Holding Register	5		uint	If changed, the devices resets and wakes-up with the new baud rate
04.Status	1. Operation	Error	0..255	NA	0 = no error #0 = error, according to bit field	NA	V	R	Input Register	60		uint	Cf. corresponding section in user manual
04.Status	1. Operation	Error2	0..255	NA	0 = no error #0 = error, according to bit field	NA	V	R	Input Register	150		uint32	Cf. corresponding section in user manual
04.Status	1. Operation	MB address	0..247	247	1..247	NA	W	RW	Holding Register	18		uint	Modbus slave address
04.Status	1. Operation	MB parity	0..2	2	0 = no parity 1 = odd parity 2 = even parity	NA	W	RW	Holding Register	24		uint	Modbus parity
04.Status	1. Operation	Port1Active	0..1	0	0 = port 2 active 1 = port 1 active	NA	W	R	Discrete Register	5		bool	Register used only with 6 way Dynamx valves (DXN6). Set to true if Port 1 is active, otherwise Port 2 is active
04.Status	1. Operation	Protocol	1..2	1	1 = modbus 2 = bacnet	NA	W	R	Input Register	144		uint32	Shows which protocol is being used
04.Status	1. Operation	Reboot	0..1	0	1 to reboot system	NA	V	RW	Output Coil	1		bool	Reboots the system: clearing all volatile variables; automatically reset to 0

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04.Status	1. Operation	Reset	0..1	0	1 to reset system	NA	V	RW	Output Coil	2		bool	Resets the system: clearing all volatile variables except the reboot counters and registers; automatically reset to 0
04.Status	1. Operation	ValModbusBased	0..1	0	0 = BACNet obj starts at 1 1 = BACNet obj starts at 0	NA	W	RW	Output Coil	25		bool	BACNet Object numbers MultiState starts at 1 or numbering follows Modbuslist and starts at 0
04.Status	1. Operation	Warning	0..255	NA	0 = no warning #0 = warning, according to bit field	NA	V	R	Input Register	61		uint	Cf. corresponding section in user manual
04.Status	1. Operation	Warning2	0..255	NA	0 = no warning #0 = warning, according to bit field	NA	V	R	Input Register	151		uint32	Cf. corresponding section in user manual
04.Status	2. Time	Days oper	0..65535	NA	1	Days	W	R	Input Register	68		uint	Days total in operation
04.Status	2. Time	hh reb	0..65535	NA	1	Hours	V	R	Input Register	65		uint	Hours since system-reboot (power-up, soft-reboot, power failure,...)
04.Status	2. Time	mm reb	0..59	NA	1	Minutes	V	R	Input Register	66		uint	Minutes since system-reboot
04.Status	2. Time	ss reb	0..59	NA	1	Seconds	V	R	Input Register	67		uint	Seconds since system-reboot
05. Energy	1. Temp	T ext	0° .. + 90°	NA	0,1	°C/°F	W	RW	Holding Register	19	20	uint32	Actual medium temperature from an external sensor. Only used when 2nd temperature sensor is NOT present. Reporting Unit can be °C or °F, depending on value of Tunit.
05. Energy	1. Temp	T off	-9°C .. + 9°C -16.2°F .. +16.2°F	0	0,1	°C/°F	W	RW	Holding Register	45	46	uint32	Offset temperature correction between 2 sensors. Only valid when 2 sensors are used. Reporting Unit can be °C or °F, depending on value of Tunit.
05. Energy	1. Temp	T unit	0..1	0	0 = °C 1 = °F	NA	W	RW	Output Coil	3		bool	Reporting unit of Tam. Can be degrees Celsius (°C) or degrees Fahrenheit (°F). Default depends on product version.
05. Energy	1. Temp	T1_Correction	-5..5°C	0°C	0,1	°C/°F	W	RW	Holding Register	88		uint	Temperature Correction for Temperature Sensor 1
05. Energy	1. Temp	T2_Correction	-5..5°C	0°C	0,1	°C/°F	W	RW	Holding Register	89		uint	Temperature Correction for Temperature Sensor 2
05. Energy	1. Temp	Tam 1	0° .. + 90°	NA	0,1	°C/°F	V	R	Input Register	100	101	float	Actual medium temperature. Reporting Unit can be °C or °F, depending on value of Tunit.
05. Energy	1. Temp	Tam 2	0° .. + 90°	NA	0,1	°C/°F	V	R	Input Register	102	103	float	Actual medium temperature from the 2nd built-in sensor. Reporting Unit can be °C or °F, depending on value of Tunit. Only used when 2 temperature sensors present.
05. Energy	2. Power	E unit	0..1	0 (SI and UK) 1 (US)	0 = Wh 1 = BTU	NA	W	RW	Holding Register	47		uint	Unit for cumulative energy consumption. Default depends on product version.
05. Energy	2. Power	Ener. cool	Wh: 0 .. 4294967295 BTU: 0 .. 1465503606	NA	DXC/DXN6 = Wh : 1, BTU : 10 DXMB/DXU DN015-065 = Wh : 10, BTU : 100 DXU DN080-200 = Wh : 100, BTU : 1000	kWh/BTU	W	R	Input Register	132	133	uint32	Cumulative energy consumption in climate status cooling mode.
05. Energy	2. Power	Ener. heat	Wh: 0 .. 4294967295 BTU: 0 .. 1465503606	NA	DXC/DXN6 = Wh : 1, BTU : 10 DXMB/DXU DN015-065 = Wh : 10, BTU : 100 DXU DN080-200 = Wh : 100, BTU : 1000	kWh/BTU	W	R	Input Register	130	131	uint32	Cumulative energy consumption in climate status heating mode.
05. Energy	2. Power	PWR	0..65535	NA	1	Watt	V	R	Input Register	55		uint	Power consumption (if PWR = 0xFFFF, error)
06. Flow	1. Flow setp	Phi	0..100	NA	0,01	NA	W	RW	Holding Register	38		sint	Equal percentage curvature
06. Flow	1. Flow setp	Setp modif	NA	0	NA	bitfield	V	R	Input Register	87		uint	b0: window open; b1 away mode; b2 night mode; b3 condensation; b4 frostprotection active

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06. Flow	1. Flow setp	V unit	0..4	SI = 0 UK = 3 US = 4	0 = m³/h 1 = l/s 2 = l/min 3 = Gpm (UK) 4 = Gpm (US)	NA	W	RW	Holding Register	4		uint	Reporting unit of flow parameters. Default depends on product version.
06. Flow	1. Flow setp	Vnomc	Type dependent	NA	NA (floating point)	cf. Vunit	C	R	Input Register	116	117	float	Nominal cooling flow. Is factory set to the highest flow the device can cope with.
06. Flow	1. Flow setp	Vnomh	Type dependent	NA	NA (floating point)	cf. Vunit	C	R	Input Register	114	115	float	Nominal heating flow. Is factory set to the highest flow the device can cope with.
06. Flow	1. Flow setp	Vs maxc d	Vsmincd..Vnomc	72% * Vnomc	Depend on Vunit and Vrange	cf. Vunit	W	RW	Holding Register	44		uint	Maximum flow setpoint in climate status cooling mode. Will always mirror Vsmincd.
06. Flow	1. Flow setp	Vs maxh d	Vsminhd..Vnomh	72% * Vnomh	Depend on Vunit and Vrange	cf. Vunit	W	RW	Holding Register	43		uint	Maximum flow setpoint in climate status heating mode. Will always mirror Vsminhd.
06. Flow	1. Flow setp	Vs minc d	0..Vsmaxcd	0	Depend on Vunit and Vrange	cf. Vunit	W	RW	Holding Register	42		uint	Minimum flow setpoint in climate status cooling mode. Will always mirror Vsmaxcd.
06. Flow	1. Flow setp	Vs minh d	0..Vsmaxhd	0	Depend on Vunit and Vrange	cf. Vunit	W	RW	Holding Register	41		uint	Minimum flow setpoint in climate status heating mode. Will always mirror Vsmaxhd.
06. Flow	1. Flow setp	Vsc	Type dependent	NA	Depend on Vunit and Vrange	cf. Vunit	W	RW	Holding Register	33		uint	Setpoint used when when climate status is in cooling mode.
06. Flow	1. Flow setp	Vsh	Type dependent	NA	Depend on Vunit and Vrange	cf. Vunit	W	RW	Holding Register	32		uint	Setpoint used when when climate status is in heating mode.
06. Flow	2. Flow meas	Qp	0.6..40	NA	0,1	m³/h	C	R	Input Register	52		uint	Nominal flow of the sensor
06. Flow	2. Flow meas	Vam	Type dependent	NA	NA (floating point)	cf. Vunit	V	R	Input Register	108	109	float	Actual medium flow reported in the unit defined by Vunit.
06. Flow	2. Flow meas	Vr	Type dependent	NA	NA (floating point)	cf. Vunit	V	R	Input Register	106	107	float	Real medium flow. The range is defined by Vrange. Vr is filtered to derive Vam, which fluctuates a lot less than Vr: When there's a new setpoint, then Vam = Vr. When Vr reaches Vs a first order filter is applied on Vam until the setpoint is changed again. reported in the unit defined by Vunit.
06. Flow	3. Y1 setp	EndMode	0..2	0	0 = Normal behavior 1 = No flow 2 = Flush mode	NA	W	RW	Holding Register	75		uint	Register used only with 6 way valves (DXN6). The EndMode will define how the valve should react if the analog input Y1 is set in the range [0V - 0.2V] or [9.8V - 10V]. In Normal behavior, the flow setpoint will follow Vsmaxcd or Vsmaxhd. In No flow, the valve will be closed. In Flush mode, the valve will open completely to the correspondent port (If Y1 is set to 0 and 0.5 to 4.5 set the boundaries for heating, the valve will open completely to the correspondent heating port).
06. Flow	3. Y1 setp	Y1 maxc	0..10	10	0,1	Volt (dc)	W	RW	Holding Register	31		uint	The value of Y1c at which the flow control loop still operates.
06. Flow	3. Y1 setp	Y1 maxh	0..10	10	0,1	Volt (dc)	W	RW	Holding Register	30		uint	The value of Y1h at which the flow control loop still operates.
06. Flow	3. Y1 setp	Y1 minc	0..10	2	0,1	Volt (dc)	W	RW	Holding Register	29		uint	The value of Y1c at which the flow control loop starts to operate.
06. Flow	3. Y1 setp	Y1 minh	0..10	2	0,1	Volt (dc)	W	RW	Holding Register	28		uint	The value of Y1h at which the flow control loop starts to operate.

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06. Flow	3. Y1 setp	Y1c	Y1minc .. Y1maxc	NA	0,1	Volt (dc)	W	RW	Holding Register	27		uint	Setpoint cooling. In digital mode this is a read-write parameter. In analog mode it is set by the external analog input signal and read-only on the UI and bus.
06. Flow	3. Y1 setp	Y1h	Y1minh .. Y1maxh	NA	0,1	Volt (dc)	W	RW	Holding Register	26		uint	Setpoint heating. In digital mode this is a read-write parameter. In analog mode it is set by the external analog input signal and read-only on the UI and bus.
07. Room Ctrl	-	RCType	0 .. 1	0 (P) 1 (PI)		NA	W	RW	Holding Register	59		uint	Control type of room controller: P or PI
07. Room Ctrl	-	Td	0.2 .. 6°C	1°C	0.1°C	°C or °F, depending on Tunit	W	RW	Holding Register	53		uint	Controller dead band
07. Room Ctrl	-	Tdnight	0.2..20°C	20°C	0.1°C	°C or °F, depending on Tunit	W	RW	Holding Register	60		uint	Controller dead band in night mode
07. Room Ctrl	-	Twindhigh	6..40°C	40°C	0.1°C	°C or °F, depending on Tunit	W	RW	Holding Register	58		uint	Maximum temperature when window open
07. Room Ctrl	-	Twindlow	6..35°C	15°C	0.1°C	°C or °F, depending on Tunit	W	RW	Holding Register	57		uint	Minimum temperature when window open
07. Room Ctrl		CoolActive	0..1	NA	0 = cooling flow closed 1 = cooling flow open	NA	V	R	Discrete Register	4		bool	Reflects whether the room controller is cooling the room
07. Room Ctrl		FrostEnable	0..1	1	0 = disabled 1 = enabled	NA	V	RW	Output Coil	21		bool	Enables or disables frostprotection based on Troom
07. Room Ctrl		HeatActive	0..1	NA	0 = heating flow closed 1 = heating flow open	NA	V	R	Discrete Register	3		bool	Reflects whether the room controller is heating the room
07. Room Ctrl		Night mode	0..1	0	NA	NA	V	RW	Output Coil	11		bool	Night mode disabled / enabled
07. Room Ctrl		Pbandcool	0.5 .. 6°C	2°C	0.1°C	°C or °F, depending on Tunit	W	RW	Holding Register	55		uint	Width of proportional band for cooling
07. Room Ctrl		Pbandheat	0.5 .. 6°C	1°C	0.1°C	°C or °F, depending on Tunit	W	RW	Holding Register	54		uint	Width of proportional band for heating
07. Room Ctrl		Tcoolmin	9..35°C	9°C	0,1	°C/°F	W	RW	Holding Register	61		uint	Minimum cooling setpoint
07. Room Ctrl		Troom	Troom min .. Troom max	Tsetcalc	0,1	°C/°F	V	R	Holding Register	50		uint	Actual room temperature
07. Room Ctrl		Troom max	0..90°C	90°C	0,1	°C/°F	W	RW	Holding Register	82		uint	Actual maximum room temperature
07. Room Ctrl		Troom min	0..90°C	0	0,1	°C/°F	W	RW	Holding Register	81		uint	Actual minimum room temperature
07. Room Ctrl		Tset	14..35°C	22°C	0,1	°C/°F	W	RW	Holding Register	51		uint	Room temperature setpoint
07. Room Ctrl		Tsetadj	-TsetadjMax..TsetadjMax	0°C	0,1	°C/°F	W	RW	Holding Register	52		int	Room temperature setpoint adjustment
07. Room Ctrl		TsetadjMax	0..5°C	5°C	0,1	°C/°F	W	RW	Holding Register	80		uint	Room temperature setpoint adjustment limits
07. Room Ctrl		Tsetcalc	9..40°C	NA	0,1	°C/°F	V	R	Input Register	86		uint	Room temperature setpoint calculated = Tset+Tsetadj
08. dP Ctrl	1. dP setp	dpSC	0..1	NA	0,01	bar	W	RW	Holding Register	63		uint	Dp setpoint when climate status is in cooling mode.
08. dP Ctrl	1. dP setp	dpSH	0..1	NA	0,01	bar	W	RW	Holding Register	62		uint	Dp setpoint when climate status is in heating mode.
08. dP Ctrl	1. dP setp	dpSmaxc	0..1	1	0,01	bar	W	RW	Holding Register	67		uint	The value of dpSC at which the dp control loop still operates.
08. dP Ctrl	1. dP setp	dpSmaxh	0..1	1	0,01	bar	W	RW	Holding Register	66		uint	The value of dpSH at which the dp control loop still operates.

CATEGORY		MAIN							MODBUS				DESCRIPTION
Main	Sub	Name	Valid range	Default	Resolution/values	Unit	Volatile	R/RW	Var Type	Address (start)	Address (end)	Data Type	
08. dP Ctrl	1. dP setp	dpsminc	0..1	0	0,01	bar	W	RW	Holding Register	65		uint	The value of dpsc at which the dp control loop starts to operate.
08. dP Ctrl	1. dP setp	dpsminh	0..1	0	0,01	bar	W	RW	Holding Register	64		uint	The value of dpsh at which the dp control loop starts to operate.
08. dP Ctrl	2. dP meas	dP calAuto	0..1	0	0 = Inactive 1 = Active	NA	W	RW	Output Coil	13		bool	If the flag is active, then a calibration process will occurs every 6 month on the dp sensor. It will result by closing and opening the valve for a few minutes.
08. dP Ctrl	2. dP meas	dP calProc	0..1	0	0 = Inactive 1 = Active	NA	V	RW	Output Coil	14		bool	If the flag is active, then a calibration process will directly occurs and will not take into account current parameters like dpsh etc. (until the calibration is completed).
08. dP Ctrl	2. dP meas	dP calStat	0..3	0	0 = Idle 1 = In progress 2 = Succeeded 3 = Failed	NA	V	R	Input Register	89		uint	Flag indicating the current status of the dp calibration.
08. dP Ctrl	2. dP meas	dP meas	0..1	NA	0,01	bar	V	R	Input Register	88		uint	Actual dp measured by the dp sensor
11. BLE	1. Quattro	SN_ReturnC	Free text	-1	10 byte string, A..Z/0..9	NA	W	RW	Holding Register	367	371	string	ASCII representation of Serial Number of the Return Cooling Slave
11. BLE	1. Quattro	SN_ReturnH	Free text	-1	10 byte string, A..Z/0..9	NA	W	RW	Holding Register	362	366	string	ASCII representation of Serial Number of the Return Heating Slave
11. BLE	1. Quattro	SN_SupplyC	Free text	-1	10 byte string, A..Z/0..9	NA	W	RW	Holding Register	357	361	string	ASCII representation of Serial Number of the Supply Cooling Slave
11. BLE	1. Quattro	SN_SupplyH	Free text	-1	10 byte string, A..Z/0..9	NA	W	RW	Holding Register	352	356	string	ASCII representation of Serial Number of the Supply Heating Slave
11. BLE	2. Status	BLE_Tx_Pwr	-260 .. 104	-1	NA	NA		R	Input Register	142		uint	Current value of Transmit power of BLE Advertisement
11. BLE	2. Status	BLE_Tx_Pwr	-260 .. 104	-1	NA	NA	W	RW	Holding Register	87		uint	Transmit power of BLE advertisement.
12. FSB	2. Status	FSB_Rev	Free text	NA	-	NA			Input Register	145	149	uint32	Flow Sensor Belparts Revision.
99.	-	IDactua	Free text	NA	20 byte string	NA	C	R	Input Register	40	49	Free text	ASCII representation of ID nr of the actuator.
99.	-	IDsensor	Free text	NA	20 byte string	NA	C	R	Input Register	30	39	Free text	ASCII representation of the ID nr of the flow sensor.
99.	-	ltime	50..50001	300	1	seconds	W	RW	Holding Register	56		uint	Integration time.
99.	-	Limit	0..1	NA	0 = Limiter off 1 = Limiter on	NA	V	R	Discrete Register	2		bool	When the device with a 0-10V motor is in openloop mode and the averaged flow increases Vsmad, the limiter is enabled and the device controls to Vsmad