

Modbus Network Controller Configuration Properties

Modbus Object Type: Holding Registers

Name	Default	Min	Max	Modbus Reg #	Notes	Register breakdown
Device Type	5	5	5	1	(Not writable) 5= Network Controller	
Device Soft Ver	7.3	0	655.35	2	(Not writable)	
					(Not writable) 3= No SD Card / 4=With	
Device Hard Ver	5	0	0	3	SD Card / 5=New Casing / PCB	
Address	99	1	127	4	Modbus Network Address	
					0=9600 / 1=19200 / 2=38400 /	
Baudrate	3	0	3	5	3=57600	
Timezone	7	0	25	6	0=GMT-12 25=GMT+13	
Use DST (Daylight					Automatically adjust for daylight savings	
Savings Time)	1	0	1	7	time (0=NO / 1=YES)	
					(Not writable) The unique MAC address	
MAC Address 1	0	0	255	8	embedded in the controller (1st byte)	
					(Not writable) The unique MAC address	
MAC Address 2	0	0	255	9	embedded in the controller (2nd byte)	
					(Not writable) The unique MAC address	
MAC Address 3	0	0	255	10	embedded in the controller (3rd byte)	
					(Not writable) The unique MAC address	
MAC Address 4	0	0	255	11	embedded in the controller (4th byte)	
					(Not writable) The unique MAC address	
MAC Address 5	0	0	255	12	embedded in the controller (5th byte)	
					(Not writable) The unique MAC address	
MAC Address 6	0	0	255	13	embedded in the controller (6th byte)	
IP Mode	0	0	1	14	0=Use Static IP / 1=Use DHCP	
IP Address 1	192	0	255	15	IP address (1st byte)	
IP Address 2	168	0	255	16	IP address (2nd byte)	
IP Address 3	1	0	255	17	IP address (3rd byte)	
IP Address 4	99	0	255	18	IP address (4th byte)	
Subnet Mask 1	255	0	255	19	Subnet Mask (1st byte)	



Subnet Mask 2	255	0	255	20	Subnet Mask (2nd byte)	
Subnet Mask 3	255	0	255	21	Subnet Mask (3rd byte)	
Subnet Mask 4	0	0	255	22	Subnet Mask (4th byte)	
Default Gateway 1	192	0	255	23	Default Gateway (1st byte)	
Default Gateway 2	168	0	255	24	Default Gateway (2nd byte)	
Default Gateway 3	1	0	255	25	Default Gateway (3rd byte)	
Default Gateway 4	1	0	255	26	Default Gateway (4th byte)	
DST Active Month	3	1	12	27	1=January 12=December	
					0= First weekend of month 4=5th	
DST Active Week	1	0	4	28	weekend of month	
DST Deactive Month	11	1	12	29	1=January 12=December	
					0= First weekend of month 4=5th	
DST Deactive Week	0	0	4	30	weekend of month	
Device Name 1	0	0	0	31	Device Name (1st character)	
Device Name 2	0	0	0		Device Name (2nd character)	
Device Name 3	0	0	0		Device Name (3rd character)	
Device Name 4	0	0	0		Device Name (4th character)	
Device Name 5	0	0	0		Device Name (5th character)	
Device Name 6	0	0	0		Device Name (6th character)	
Device Name 7	0	0	0		Device Name (7th character)	
Device Name 8	0	0	0		Device Name (8th character)	
Device Name 9	0	0	0	39	Device Name (9th character)	
Device Name 10	0	0	0		Device Name (10th character)	
Device Name 11	0	0	0		Device Name (11th character)	
Device Name 12	0	0	0	42	Device Name (12th character)	
Device Name 13	0	0	0	43	Device Name (13th character)	
Device Name 14	0	0	0	44	Device Name (14th character)	
Device Name 15	0	0	0		Device Name (15th character)	
Device Name 16	0	0	0	46	Device Name (16th character)	
					Address of the ProLon device that is the	
Outside Temperature					source of the Outside Temperature	
Source	0	0	127	47	reading (0=function deactivated)	
					Addresses of ProLon devices to receive the outside temperature (0=do not	
Outside Temperature					receive / 1=receive) (LSB=address#0 /	
Distribution 1	0	0	255	48	MSB=address#15)	



Dutside Temperature							
Dutside Temperature Distribution 2						Addresses of ProLon devices to receive	
Distribution 2						. ,	
Addresses of ProLon devices to receive the outside temperature (0=do not receive / 1=receive) (LSB=address#32						, ,	
Coutside Temperature	Distribution 2	0	0	255	49	,	
Dutside Temperature Distribution 3							
Distribution 3						. ,	
Addresses of ProLon devices to receive the outside temperature (0—do not receive / 1=receive) (LSB=address#48						, ,	
The outside temperature (0=do not receive / 1=receive) (LSB=address#48	Distribution 3	0	0	255	50	,	
Dutside Temperature Distribution 4							
Distribution 4						the outside temperature (0=do not	
Addresses of ProLon devices to receive the outside temperature (0=do not receive / 1=receive / 1=rec	Outside Temperature					receive / 1=receive) (LSB=address#48	
Coutside Temperature	Distribution 4	0	0	255	51	/ MSB=address#63)	
Outside Temperature Distribution 5 0 0 255 52 / MSB=address#79) Outside Temperature Distribution 6 0 0 255 53 / MSB=address#80 Outside Temperature Distribution 6 0 0 255 53 / MSB=address#85) Outside Temperature Distribution 7 0 0 255 54 / MSB=address#111) Addresses of ProLon devices to receive the outside temperature (0=do not receive / 1=receive) (LSB=address#96) 4 / MSB=address#111) Addresses of ProLon devices to receive the outside temperature (0=do not receive / 1=receive) (LSB=address#112) 6 / MSB=address#112 Outside Temperature Distribution 8 0 0 255 55 / MSB=address#127 Alerts/Datalog Language 1 0 1 56 / O=Francais / 1=English Alerts/Datalog Temperature Units 1 0 1 57 / O=Fahrenheit / 1=Celsius DNS Address 1 8 0 255 59 / DNS address (2nd byte) DNS Address 3 8 0 255 60 / DNS address (3rd byte)						Addresses of ProLon devices to receive	
Distribution 5						the outside temperature (0=do not	
Addresses of ProLon devices to receive the outside temperature (0=do not receive / 1=receive) (LSB=address#80	Outside Temperature					receive / 1=receive) (LSB=address#64	
Coutside Temperature	Distribution 5	0	0	255	52	/ MSB=address#79)	
Outside Temperature Distribution 6						Addresses of ProLon devices to receive	
Distribution 6 0 0 255 53 / MSB=address#95) Addresses of ProLon devices to receive the outside temperature (0=do not receive / 1=receive) (LSB=address#96) Distribution 7 0 0 255 54 / MSB=address#111) Addresses of ProLon devices to receive the outside temperature (0=do not receive / 1=receive) (LSB=address#96) Addresses of ProLon devices to receive the outside temperature (0=do not receive / 1=receive) (LSB=address#112 / MSB=address#112 / MSB=address#112 / MSB=address#112 / MSB=address#112 / MSB=address#127) Alerts/Datalog Language 1 0 1 56 0=Francais / 1=English Alerts/Datalog Temperature Units 1 0 1 57 0=Fahrenheit / 1=Celsius DNS Address 1 8 0 255 58 DNS address (1st byte) DNS Address 2 8 0 255 59 DNS address (2nd byte) DNS Address 3 8 0 255 60 DNS address (3rd byte)						the outside temperature (0=do not	
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the outside temperature (0=do not receive / 1=receive) (LSB=address#96	Distribution 6	0	0	255	53	/ MSB=address#95)	
Outside Temperature Distribution 7 0 0 255 54 / MSB=address#111) Addresses of ProLon devices to receive the outside temperature (0=do not receive / 1=receive) (LSB=address#112 / LSB=address#112 / LSB=address#112 / LSB=address#112 / LSB=address#127) MSB=address#127) Outside Temperature Distribution 8 0 0 255 55 MSB=address#127) Alerts/Datalog Language 1 0 1 56 0=Francais / 1=English Alerts/Datalog Temperature Units 1 0 1 57 0=Fahrenheit / 1=Celsius DNS Address 1 8 0 255 58 DNS address (1st byte) DNS Address 2 8 0 255 59 DNS address (2nd byte) DNS Address 3 8 0 255 60 DNS address (3rd byte)						Addresses of ProLon devices to receive	
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the outside temperature (0=do not receive / 1=receive) Outside Temperature Distribution 8	Distribution 7	0	0	255	54	/ MSB=address#111)	
Coutside Temperature						Addresses of ProLon devices to receive	
Outside Temperature (LSB=address#112 / Distribution 8 0 0 255 55 MSB=address#127) Alerts/Datalog 1 0 1 56 0=Francais / 1=English Alerts/Datalog 7 0=Fahrenheit / 1=Celsius Temperature Units 1 0 1 57 0=Fahrenheit / 1=Celsius DNS Address 1 8 0 255 58 DNS address (1st byte) DNS Address 2 8 0 255 59 DNS address (2nd byte) DNS Address 3 8 0 255 60 DNS address (3rd byte)						the outside temperature (0=do not	
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Language 1 0 1 56 0=Francais / 1=English Alerts/Datalog Temperature Units 1 0 1 57 0=Fahrenheit / 1=Celsius DNS Address 1 8 0 255 58 DNS address (1st byte) DNS Address 2 8 0 255 59 DNS address (2nd byte) DNS Address 3 8 0 255 60 DNS address (3rd byte)	Alerts/Datalog					,	
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Temperature Units 1 0 1 57 0=Fahrenheit / 1=Celsius DNS Address 1 8 0 255 58 DNS address (1st byte) DNS Address 2 8 0 255 59 DNS address (2nd byte) DNS Address 3 8 0 255 60 DNS address (3rd byte)	Alerts/Datalog					, and the second	
DNS Address 1 8 0 255 58 DNS address (1st byte) DNS Address 2 8 0 255 59 DNS address (2nd byte) DNS Address 3 8 0 255 60 DNS address (3rd byte)	Temperature Units	1	0	1	57	0=Fahrenheit / 1=Celsius	
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DNS Address 3 8 0 255 60 DNS address (3rd byte)	DNS Address 2		_				
	DNS Address 3						
DNS Address 4 8 0 255 61 DNS address (4th byte)	DNS Address 4		_	255		` ,	



					The quantity of valid weekly routines	
Quantity of Valid					stored on the NC. Routines must be	
Weekly Routines	0	0	16	62	stored in order, without any gaps.	
					The quantity of valid annual routines	
Quantity of Valid					stored on the NC. Routines must be	
Annual Routines	0	0	16	63	stored in order, without any gaps.	
Allow Cloud					0=Cloud Comm Disabled / 1=Cloud	
Communication	1	0	1	64	Comm Enabled	
					0=Email Only / 1=Push Notif Only /	
Alert Type	0	0	2	65	2=Both Email & Push Notif	
Qty of Valid Alerts						
(Read-Only)	0	0	200	66		
Qty of Valid Logs						
(Read-Only)	0	0	100	67		
Qty of Valid Devices					Applies to the Schedule Distribution List	
(Read-Only)	0	0	126	68	(Registers 3724 to 4227).	
7,					LSB = Logging Started / 2nd LSB =	
					Search for used Space Complete / 3rd	
					LSB = Free Space Found / 4th LSB =	
					Force new log on start (write only). For	
					writing, only the 1st and 4th LSB are	
Datalogging Status	0	0	15	82	considered.	
					Specify the maximum size allowed for the	
					datalog (0=No maximum - use all	
					available space). Once reached, datalog	
DataLog Max Size 1	0	0	65535	83	will wrap around and erase the oldest	
DataLog Max Ci20 1			00000		Specify the maximum size allowed for the	
					datalog (0=No maximum - use all	
					available space). Once reached, datalog	
					will wrap around and erase the oldest	
DataLog Max Size 2	0	0	65535	84	data. (High WORD)	
DataLog Wax Size Z	0	U	00000	04	data. (High WOND)	
DataLog Total					The total amount of sectors found on the	
Sectors 1	0	0	65535	05	SD card. (Low WORD)	
DataLog Total	U	U	00000	00	The total amount of sectors found on the	
		_	GEESE	0.6		
Sectors 2	0	0	65535	86	SD card. (High WORD)	



DataLog Used					The total amount of sectors already in	
Sectors 1	0	0	65535	87	use on the SD card. (Low WORD)	
DataLog Used					The total amount of sectors already in	
Sectors 2	0	0	65535	88	use on the SD card. (High WORD)	
					The size of the ProLon datalog currently	
Datalog File Size 1	0	0	65535	89	saved on the SD card. (Low WORD)	
					The size of the Dual on detalog suggestly	
Detalog File Cine O		_	CEEDE	00	The size of the ProLon datalog currently	
Datalog File Size 2 Launch Get List	0	0	65535	90	saved on the SD card. (High WORD) Set to 1 to launch the Get List Function	
		_		00		
Function	0	0	1	98	(completes in 15 seconds)	
Reset	0	0	1	100	Set to 1 to cause the scheduler to reset	
110001			•	100	Years after 2000 (Registers 101 to 107	
					must be read at the same time in a single	
Current Time - Year	0	0	99	101	ReadMultiple operation)	
Carrotti timo toda					1=Jan 12=December (Registers 101	
					to 107 must be read at the same time in	
Current Time - Month	1	1	12	102	a single ReadMultiple operation)	
					0=Sunday 6=Saturday (Registers 101	
Current Time - Day of					to 107 must be read at the same time in	
Week	0	0	6	103	a single ReadMultiple operation)	
					Day of the month (Registers 101 to 107	
					must be read at the same time in a single	
Current Time - Day	1	1	31	104	ReadMultiple operation)	
					Hours (Registers 101 to 107 must be	
					read at the same time in a single	
Current Time - Hours	0	0	23	105	ReadMultiple operation)	
					Minute (Registers 101 to 107 must be	
Current Time -					read at the same time in a single	
Minute	0	0	59	106	ReadMultiple operation)	
					Seconds (Registers 101 to 107 must be	
Current Time -					read at the same time in a single	
Seconds	0	0	59	107	ReadMultiple operation)	



Weekly Routines -	255	0	255		Registers 108 to 395. There is a maximum of 16 Routines. Each Routine is 18 regs wide. Each Routine must be accessed using a Multiple Read/Write operation.	1 Routine = 18 registers> [First 16 regs = Name of Routine (1 character per reg)] [Last 2 regs = IDs of the 2 annual routines associated with this weekly routine. Valid IDs are 0-15. Setting to invalid means no annual routine will be used]
Annual Routines - Identification	255	0	255	396	Registers 396 to 651. There is a maximum of 16 Routines. Each Routine is 16 regs wide. Each Routine must be accessed using a Multiple Read/Write operation.	1 Routine = 16 registers> [Name of Routine (1 character per reg)]
Annual Routines - Dates	0	0	255	652	Registers 652 to 1419. There is a maximum of 16 Routines. Each Routine has 12 Months (ordered Jan, Feb, etc), each Month is 4 regs wide (48 regs per Routine). Each Month must be accessed using a Multiple Read/Write operation.	1 Month = 4 registers> [1st reg = 1st 8 days of the month, as follows: LSB=1st day of the month, 2nd LSB=2nd day of the month, etc (Only the first 8 bits of a reg are used). Set bit to 1=Holiday/0=Normal] [2nd reg = next 8 days of the month] etc
Weekly Routine - Schedules	127	0	255	1420	Registers 1420 to 3723. There is a maximum of 16 Routines. Each Routine has 9 Days (Sunday to Saturday, Holiday1, Holiday2), each Day is 16 regs wide (144 regs per routine). Each Day must be accessed using a Multiple Read/Write operation.	1 Day = 16 registers> ([1 reg for the hour] [1 reg for the minute]) x 8 periods in a day, each period alternating Occupied/Unoccupied, starting with Occupied. Invalid times are ignored.
Schedule Distribution	255	0	255	3724	Registers 3724 to 4227. There is a maximum of 126 Devices that can receive a schedule. Each Device is 4 registers wide. Each Device must be accessed using a Multiple Read/Write operation.	1 Device = 4 registers> [1st = Address of the device (1-127)] [2nd= 1st Weekly Routine ID assigned to this device (0-15)] [3rd= 2nd Weekly Routine ID assigned to this device (0-15)] [4th= Status (LSB=Occupied/Unoccupied) (2nd LSB = Override Enable)]
Weekly Routines - Status	0	0	0	4228	Registers 4228 to 4243. There is an override register available for each routine (16 total). (LSB=Occupied/Unoccupied) (2nd LSB = Override Enable)	



Email List	0	0	255	4452	Registers 4452 to 4595. There is a maximum of 3 Email Addresses with 48 registers per email (2 characters per register). Each Email Address must be accessed using a Multiple Read/Write operation.	
Alert Entries Block 1 (1-100)	0	0	65535	4644	Registers 4644 to 7043. There is a maximum of 100 Alerts. Each Alert is 24 registers wide. Each Alert must be accessed using a Multiple Read/Write operation.	[Reg 1: Device Address> Bit9=ThisAlertHasNotChanged] [Reg 2: Modbus Register to be polled] [Reg 3: Alert Type (<,>,=,Periodic)] [Reg 4: Alert Value] [Reg 5: Alert Unit] [Reg 6: Alert Group] [Reg 7: Debounce Time -> MSB=SendNow] [Reg 8: Device Type] [Reg 9-16: Alert Name] [Reg 17- 24: Dev Name]
DataLog Entries Block 1 (1-50)	0	0	65535	7044	Registers 7044 to 8143. There is a maximum of 50 Logs Entries. Each Log Entry is 22 registers wide. Each Log Entry must be accessed using a Multiple Read/Write operation.	[Reg 1: Device Address] [Reg 2: Modbus Register to be polled] [Reg 3: Poll Type (0=Interval/1=Offset)] [Reg 4: Poll Condition] [Reg 5: Poll Unit] [Reg 6: Device Type] [Reg 7- 14: Poll Name] [Reg 15-22: Dev Name]
Schedule Destination Regs	0	0	65535	8144	Registers 8144 to 8269. Specifies the destination register for each device found in "Schedule Distribution". Setting to zero uses default ProLon schedule register 136	
Found List	0	0	65535		Registers 8270 to 8277. LSB=Addr0, MSB=Addr127	
Alert Entries Block 2 (101-200)	0	0	65535	8278	Registers 8278 to 10677. There is a maximum of 100 Alerts. Each Alert is 24 registers wide. Each Alert must be accessed using a Multiple Read/Write operation.	[Reg 1: Device Address> Bit9=ThisAlertHasNotChanged] [Reg 2: Modbus Register to be polled] [Reg 3: Alert Type (<,>,=,Periodic)] [Reg 4: Alert Value] [Reg 5: Alert Unit] [Reg 6: Alert Group] [Reg 7: Debounce Time -> MSB=SendNow] [Reg 8: Device Type] [Reg 9-16: Alert Name] [Reg 17- 24: Dev Name]



				Registers 10678 to 11777. There is a	[Reg 1: Device Address] [Reg 2: Modbus
				maximum of 50 Logs Entries. Each Log	Register to be polled] [Reg 3: Poll Type
				Entry is 22 registers wide. Each Log	(0=Interval/1=Offset)] [Reg 4: Poll Condition]
DataLog Entries				Entry must be accessed using a Multiple	[Reg 5: Poll Unit] [Reg 6: Device Type] [Reg 7-
Block 2 (51-100)	0	0	65535	10678 Read/Write operation.	14: Poll Name] [Reg 15-22: Dev Name]