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1. ADAM 4000 Configuration

1.1 ADAM 4000

The ADAM-4000 Distributed I/O Systems from Advantech are supported by the ADAM4K **Device Type** driver in WebAccess. There are other manufacturers, which use "ADAM 4000" protocol compatible devices that are also supported by this driver.

The ADAM4K Device driver reads the IO Modules of the ADAM-4000 directly.



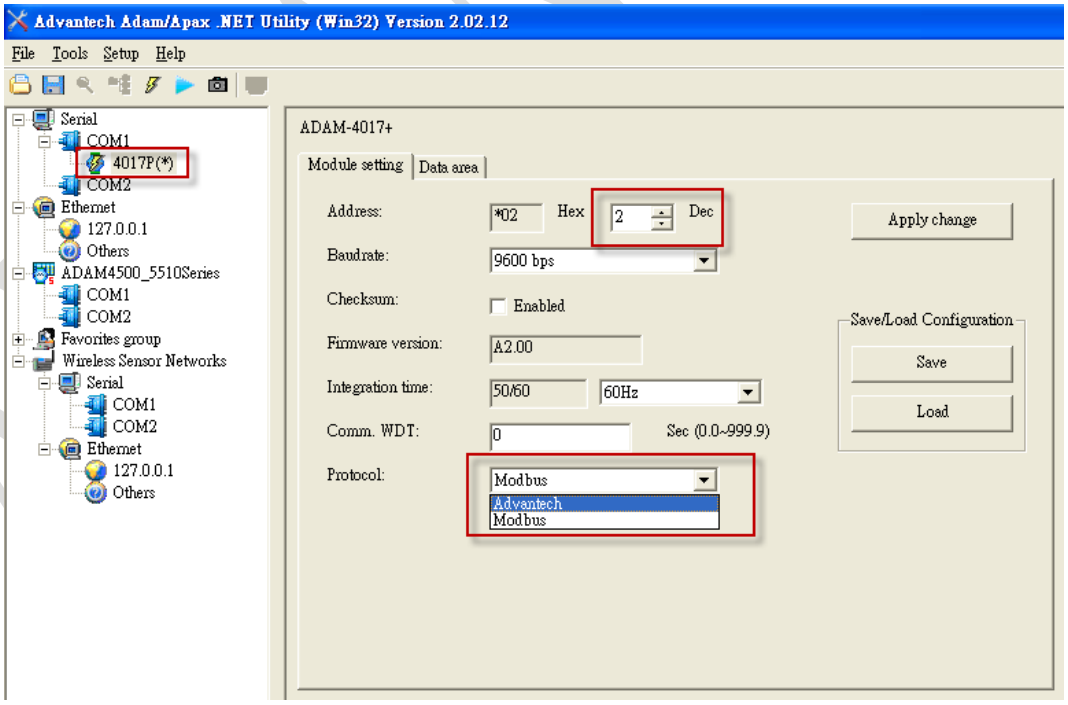
The modules contain a RS-485 port. It only has the data+ and data- connectors. If you want to connect it to an RS-232 port on your computer please use a converter. The ADAM 4520 is a RS-422/485 to RS-232 converter module.

Note that when you use a converter the baud rate of the converter must be set to 9600bps and the handshaking of the converter should match the handshaking setting on your computer.

1.2 Module Settings

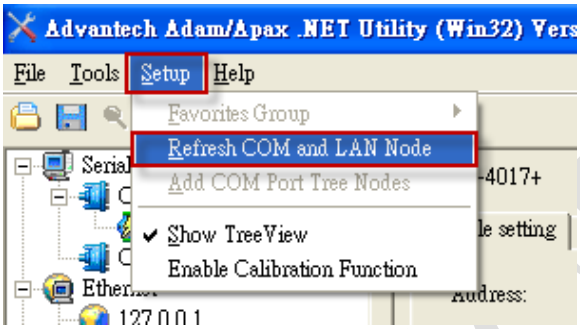
Start your module while linking the init connector to the ground (to enable the initial mode) and connect it to the computer.

On the computer start the Adam/Apax .NET Utility



The module will automatically appear in the left tree under the serial port it is connected to.

If you are using virtual com port from (EKI serial server) or USB to serial adapters you need to refresh the com port list first and then the module list.



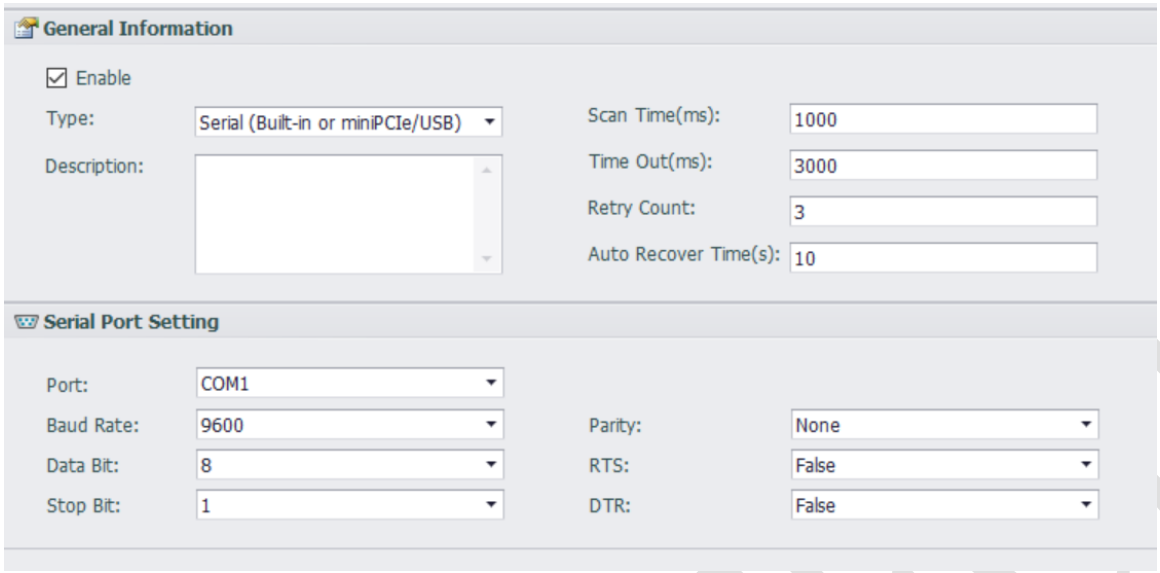
The * next to the module name means it is in initial mode. Make sure that the protocol is Advantech and note the Address, baud rate and checksum as they will be required in WebAccess settings.

Then close the utility and restart the module.

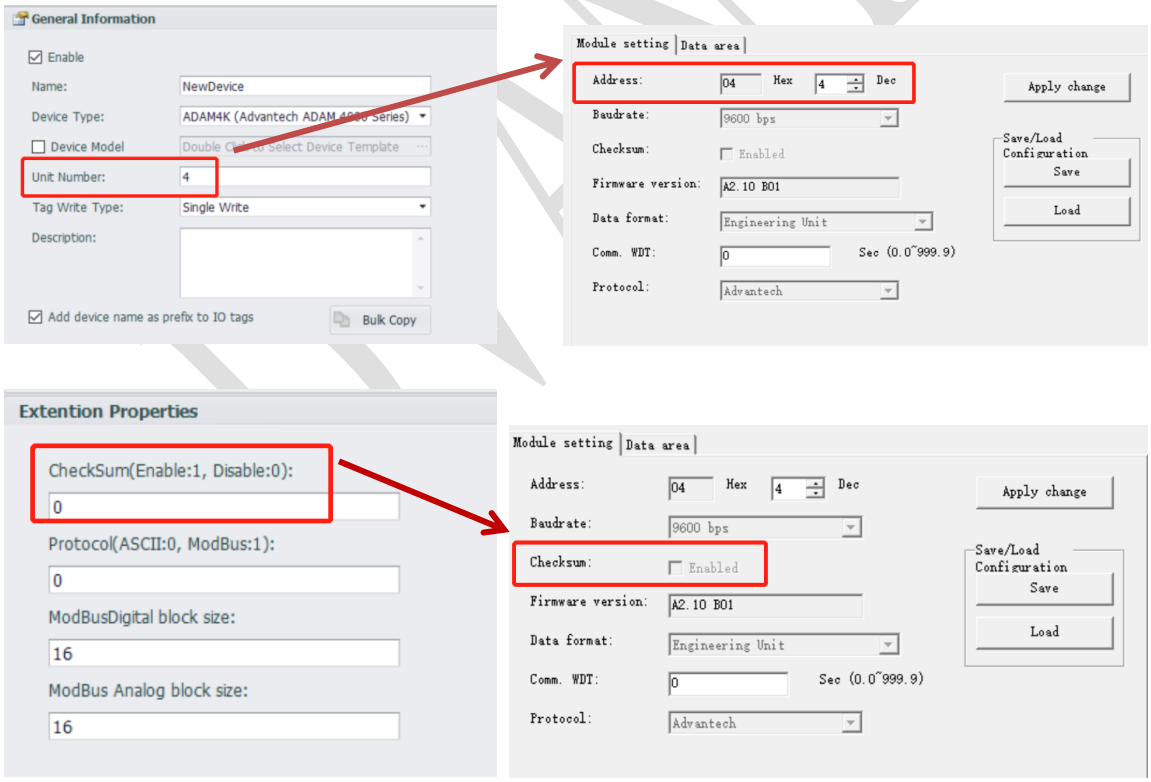
2. Edgelink Configuration

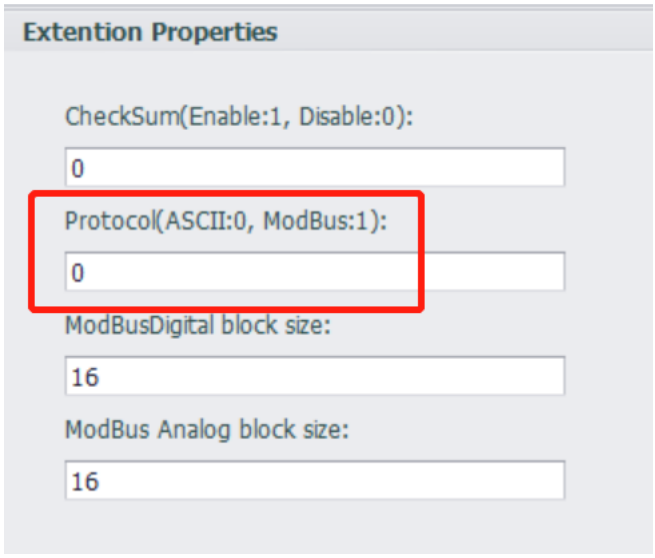
2.1 Add Com

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2.2 Add Device



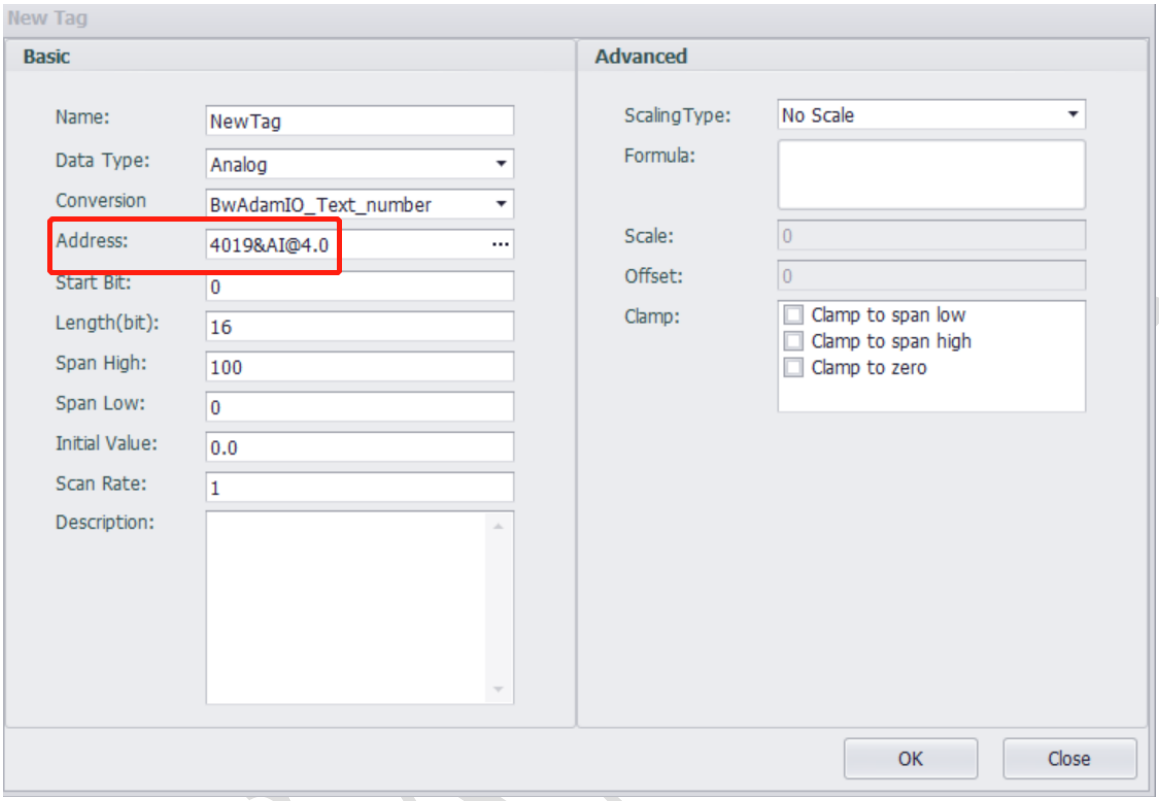


Checksum: Modules can add a checksum to the transactions to confirm the integrity of the data. The checksum setting must match the one in the module.

Protocol: 0 for ASCII, 1 for Modbus.

ADVANTECH

2.3 Tag



The rule of address is :

<module name>&< module function>@<module address>.<channel number>

2.4 Supported Module List

Here are a few of our most used blocks.

2.4.1 4011

1-Channel Thermocouple Input Module

Parameter	Description	Address	Start Bit	Length

Parameter	Description	Address	Start Bit	Length
AI_0	Analog Input	4011&AI@0.0	0	16
ALM_CLR	Clear alarm	4011&ALM:CLR@0.0	0	1
ALM_CLRH	Clear high alarm	4011&ALM:CLR_H@0.0	0	1
ALM_CLRL	Clear low alarm	4011&ALM:CLR_L@0.0	0	1
ALM_M	Read alarm mode (0=Disable,1=Enable, 2=Momentary, 3=Latching)	4011&ALM:M@0.0	0	1
ALM_H	High alarm	4011&ALM:M_H@0.0	0	1
ALM_L	Low alarm	4011&ALM:M_L@0.0	0	1
ALM_OFF	Disable alarm	4011&ALM:OFF@0.0	0	1
ALM_OFFH	Disable high alarm	4011&ALM:OFF_H@0.0	0	1
ALM_OFFL	Disable low alarm	4011&ALM:OFF_L@0.0	0	1
ALM_ON_H	Enable high alarm	4011&ALM:ON_H@0.0	0	1
ALM_ON_L	Enable low alarm	4011&ALM:ON_L@0.0	0	1
ALM_ONLA	Enable Latching alarm	4011&ALM:ON_LAT@0.0	0	1
ALM_ONMO	Enable momentary alarm	4011&ALM:ON_MOM@0.0	0	1
ALM_S	Read alarm status (0=OFF, 1=ON)	4011&ALM:ON_S@0.0	0	1
ALM_S_H	Read high alarm status (0=No alarm; 1=Alarm occurred)	4011&ALM:ON_S_H@0.0	0	1
ALM_S_L	Read low alarm status (0=No Alarm; 1=Alarm occurred)	4011&ALM:ON_S_L@0.0	0	1

Parameter	Description	Address	Start Bit	Length
CNT_CLR	Clear counter	4011&CNT:CLR@0.0	0	1
CNT_OFF	Stop counter	4011&CNT:OFF@0.0	0	1
CNT_ON	Start counter	4011&CNT:ON@0.0	0	1
CNT_R	Read counter value	4011&CNT:R@0.0	0	1
CNT_S	Read counter start/stop status (S=0,stops counting; S=1,starts counting)	4011&CNT:S@0.0	0	1
DI_0	Digital Input	4011&DI@0.0	0	1
DO_0	Digital Output	4011&DO@0.0	0	1
DO_1	Digital Output	4011&DO@0.1	0	1

2.4.2 4012

1-Channel Analog Input Module

Parameter	Description	Channel	Address	Start Bit	Length
AI_0	Analog Input	0	4012&AI@0.0	0	16
DI_0	Digital Input	0	4012&DI@0.0	0	1
DO_0	Digital Output	0	4012&DO@0.0	0	1
DO_1	Digital Output	1	4012&DO@0.1	0	1

2.4.3 4013

1-Channel RTD Input Module

Parameter	Description	Channel	Address	Start Bit	Length
AI_0	Analog Input	0	4013&AI@0.0	0	16

2.4.4 4015

6-Channel RTD Module

Parameter	Description	Channel	Address	Start Bit	Length
AI_0	Analog Input	0	4015&AI@0.0	0	16
AI_1	Analog Input	1	4015&AI@0.1	0	16
AI_2	Analog Input	2	4015&AI@0.2	0	16
AI_3	Analog Input	3	4015&AI@0.3	0	16
AI_4	Analog Input	4	4015&AI@0.4	0	16
AI_5	Analog Input	5	4015&AI@0.5	0	16

2.4.5 4015T

6-Channel Thermistor Module

Parameter	Description	Channel	Address	Start Bit	Length

Parameter	Description	Channel	Address	Start Bit	Length
AI_0	Analog Input	0	4015&AI@0.0	0	16
AI_1	Analog Input	1	4015&AI@0.1	0	16
AI_2	Analog Input	2	4015&AI@0.2	0	16
AI_3	Analog Input	3	4015&AI@0.3	0	16
AI_4	Analog Input	4	4015&AI@0.4	0	16
AI_5	Analog Input	5	4015&AI@0.5	0	16

2.4.6 4016

1-Channel Analog Input/Output Module

Parameter	Description	Channel	Address	Start Bit	Length
AI_0	Analog Input	0	4016&AI@0.0	0	16
AO_0	Analog Output	0	4016&AO@0.0	0	16
DO_0	Digital Output	0	4016&DO@0.0	0	1
DO_1	Digital Output	1	4016&DO@0.1	0	1

2.4.7 4017

8-Channel Analog Input Module

Parameter	Description	Channel	Address	Start Bit	Length

Parameter	Description	Channel	Address	Start Bit	Length
AI_0	Analog Input	0	4017&AI@0.0	0	16
AI_1	Analog Input	1	4017&AI@0.1	0	16
AI_2	Analog Input	2	4017&AI@0.2	0	16
AI_3	Analog Input	3	4017&AI@0.3	0	16
AI_4	Analog Input	4	4017&AI@0.4	0	16
AI_5	Analog Input	5	4017&AI@0.5	0	16
AI_6	Analog Input	6	4017&AI@0.6	0	16
AI_7	Analog Input	7	4017&AI@0.7	0	16

2.4.8 4018

8-Channel Thermocouple Input Module

Parameter	Description	Channel	Address	Start Bit	Length
AI_0	Analog Input	0	4018&AI@0.0	0	16
AI_1	Analog Input	1	4018&AI@0.1	0	16
AI_2	Analog Input	2	4018&AI@0.2	0	16
AI_3	Analog Input	3	4018&AI@0.3	0	16
AI_4	Analog Input	4	4018&AI@0.4	0	16
AI_5	Analog Input	5	4018&AI@0.5	0	16
AI_6	Analog Input	6	4018&AI@0.6	0	16

Parameter	Description	Channel	Address	Start Bit	Length
AI_7	Analog Input	7	4018&AI@0.7	0	16

2.4.9 4019P

8-Channel Universal Analog Input Module

Parameter	Description	Channel	Address	Start Bit	Length
AI_0	Analog Input	0	4019&AI@0.0	0	16
AI_1	Analog Input	1	4019&AI@0.1	0	16
AI_2	Analog Input	2	4019&AI@0.2	0	16
AI_3	Analog Input	3	4019&AI@0.3	0	16
AI_4	Analog Input	4	4019&AI@0.4	0	16
AI_5	Analog Input	5	4019&AI@0.5	0	16
AI_6	Analog Input	6	4019&AI@0.6	0	16
AI_7	Analog Input	7	4019&AI@0.7	0	16

2.4.10 4021

1-Channel Analog Output Module

Parameter	Description	Channel	Address	Start Bit	Length
AO_0	Analog Output	0	4021&AO@0.0	0	16

2.4.11 4022T

2-Channel Serial Based Dual Loop PID Controller

Parameter	Description	Channel	Address	Start Bit	Length
AI_0	Analog Input	0	4022&AI@0.0	0	16
AI_1	Analog Input	1	4022&AI@0.1	0	16
AI_2	Analog Input	2	4022&AI@0.2	0	16
AI_3	Analog Input	3	4022&AI@0.3	0	16
AO_0	Analog Output	0	4022&AO@0.0	0	16
AO_1	Analog Output	1	4022&AO@0.1	0	16
DI_0	Digital Input	0	4022&DI@0.0	0	1
DI_1	Digital Input	1	4022&DI@0.1	0	1
DO_0	Digital Output	0	4022&DO@0.0	0	1
DO_1	Digital Output	1	4022&DO@0.1	0	1

2.4.12 4024

4-Channel Analog Output Module

Parameter	Description	Channel	Address	Start Bit	Length
AO_0	Analog Output	0	4024&AO@0.0	0	16
AO_1	Analog Output	1	4024&AO@0.1	0	16

Parameter	Description	Channel	Address	Start Bit	Length
AO_2	Analog Output	2	4024&AO@0.2	0	16
AO_3	Analog Output	3	4024&AO@0.3	0	16
DO_0	Digital Output	0	4024&DO@0.0	0	1
DO_1	Digital Output	1	4024&DO@0.1	0	1
DO_2	Digital Output	2	4024&DO@0.2	0	1
DO_3	Digital Output	3	4024&DO@0.3	0	1

2.4.13 4050

15-Channel Digital Input Output Module

Parameter	Description	Channel	Address	Start Bit	Length
DI_0	Digital Input	0	4050&DI@0.0	0	1
DI_1	Digital Input	1	4050&DI@0.1	0	1
DI_2	Digital Input	2	4050&DI@0.2	0	1
DI_3	Digital Input	3	4050&DI@0.3	0	1
DI_4	Digital Input	4	4050&DI@0.4	0	1
DI_5	Digital Input	5	4050&DI@0.5	0	1
DI_6	Digital Input	6	4050&DI@0.6	0	1
DO_0	Digital Output	0	4050&DO@0.0	0	1
DO_1	Digital Output	1	4050&DO@0.1	0	1

Parameter	Description	Channel	Address	Start Bit	Length
DO_2	Digital Output	2	4050&DO@0.2	0	1
DO_3	Digital Output	3	4050&DO@0.3	0	1
DO_4	Digital Output	4	4050&DO@0.4	0	1
DO_5	Digital Output	5	4050&DO@0.5	0	1
DO_6	Digital Output	6	4050&DO@0.6	0	1
DO_7	Digital Output	7	4050&DO@0.7	0	1

2.4.14 4051

16-Channnel Isolated Digital Input Module

Parameter	Description	Channel	Address	Start Bit	Length
DI_0	Digital Input	0	4051&DI@0.0	0	1
DI_1	Digital Input	1	4051&DI@0.1	0	1
DI_2	Digital Input	2	4051&DI@0.2	0	1
DI_3	Digital Input	3	4051&DI@0.3	0	1
DI_4	Digital Input	4	4051&DI@0.4	0	1
DI_5	Digital Input	5	4051&DI@0.5	0	1
DI_6	Digital Input	6	4051&DI@0.6	0	1
DI_7	Digital Input	7	4051&DI@0.7	0	1
DI_8	Digital Input	8	4051&DI@0.8	0	1

Parameter	Description	Channel	Address	Start Bit	Length
DI_9	Digital Input	9	4051&DI@0.9	0	1
DI_10	Digital Input	10	4051&DI@0.10	0	1
DI_11	Digital Input	11	4051&DI@0.11	0	1
DI_12	Digital Input	12	4051&DI@0.12	0	1
DI_13	Digital Input	13	4051&DI@0.13	0	1
DI_14	Digital Input	14	4051&DI@0.14	0	1
DI_15	Digital Input	15	4051&DI@0.15	0	1

2.4.15 4052

8-Channel Isolated Digital Input Module

Parameter	Description	Channel	Address	Start Bit	Length
DI_0	Digital Input	0	4052&DI@0.0	0	1
DI_1	Digital Input	1	4052&DI@0.1	0	1
DI_2	Digital Input	2	4052&DI@0.2	0	1
DI_3	Digital Input	3	4052&DI@0.3	0	1
DI_4	Digital Input	4	4052&DI@0.4	0	1
DI_5	Digital Input	5	4052&DI@0.5	0	1
DI_6	Digital Input	6	4052&DI@0.6	0	1
DI_7	Digital Input	7	4052&DI@0.7	0	1

2.4.16 4053

16-Channel Digital Input Module

Parameter	Description	Channel	Address	Start Bit	Length
DI_0	Digital Input	0	4053&DI@0.0	0	1
DI_1	Digital Input	1	4053&DI@0.1	0	1
DI_2	Digital Input	2	4053&DI@0.2	0	1
DI_3	Digital Input	3	4053&DI@0.3	0	1
DI_4	Digital Input	4	4053&DI@0.4	0	1
DI_5	Digital Input	5	4053&DI@0.5	0	1
DI_6	Digital Input	6	4053&DI@0.6	0	1
DI_7	Digital Input	7	4053&DI@0.7	0	1
DI_8	Digital Input	8	4053&DI@0.8	0	1
DI_9	Digital Input	9	4053&DI@0.9	0	1
DI_10	Digital Input	10	4053&DI@0.10	0	1
DI_11	Digital Input	11	4053&DI@0.11	0	1
DI_12	Digital Input	12	4053&DI@0.12	0	1
DI_13	Digital Input	13	4053&DI@0.13	0	1
DI_14	Digital Input	14	4053&DI@0.14	0	1
DI_15	Digital Input	15	4053&DI@0.15	0	1

2.4.17 4055

15-Channel Isolated Digital Input Output Module

Parameter	Description	Channel	Address	Start Bit	Length
DI_0	Digital Input	0	4055&DI@0.0	0	1
DI_1	Digital Input	1	4055&DI@0.1	0	1
DI_2	Digital Input	2	4055&DI@0.2	0	1
DI_3	Digital Input	3	4055&DI@0.3	0	1
DI_4	Digital Input	4	4055&DI@0.4	0	1
DI_5	Digital Input	5	4055&DI@0.5	0	1
DI_6	Digital Input	6	4055&DI@0.6	0	1
DI_7	Digital Input	7	4055&DI@0.7	0	1
DO_0	Digital Output	0	4055&DO@0.0	0	1
DO_1	Digital Output	1	4055&DO@0.1	0	1
DO_2	Digital Output	2	4055&DO@0.2	0	1
DO_3	Digital Output	3	4055&DO@0.3	0	1
DO_4	Digital Output	4	4055&DO@0.4	0	1
DO_5	Digital Output	5	4055&DO@0.5	0	1
DO_6	Digital Output	6	4055&DO@0.6	0	1
DO_7	Digital Output	7	4055&DO@0.7	0	1

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2.4.18 4080

2-Channel Counter/Frequency Module

Parameter	Description	Address	Start Bit	Length
ALM_CLR	Clear alarm	4080&ALM:CLR@0.0	0	1
ALM_CLRH	Clear high alarm	4080&ALM:CLR_H@0.0	0	1
ALM_CLRL	Clear low alarm	4080&ALM:CLR_L@0.0	0	1
ALM_M	Read alarm mode (0=Disable,1=Enable, 2=Momentary, 3=Latching)	4080&ALM:M@0.0	0	1
ALM_H	High alarm	4080&ALM:M_H@0.0	0	1
ALM_L	Low alarm	4080&ALM:M_L@0.0	0	1
ALM_OFF	Disable alarm	4080&ALM:OFF@0.0	0	1
ALM_OFFH	Disable high alarm	4080&ALM:OFF_H@0.0	0	1
ALM_OFFL	Disable low alarm	4080&ALM:OFF_L@0.0	0	1
ALM_ON_H	Enable high alarm	4080&ALM:ON_H@0.0	0	1
ALM_ON_L	Enable low alarm	4080&ALM:ON_L@0.0	0	1
ALM_ONLA	Enable Latching alarm	4080&ALM:ON_LAT@0.0	0	1
ALM_ONMO	Enable momentary alarm	4080&ALM:ON_MOM@0.0	0	1
ALM_S	Read alarm status (0=OFF, 1=ON)	4080&ALM:ON_S@0.0	0	1
ALM_S_H	Read high alarm status (0=No alarm; 1=Alarm occurred)	4080&ALM:ON_S_H@0.0	0	1

Parameter	Description	Address	Start Bit	Length
ALM_S_L	Read low alarm status (0=No Alarm; 1=Alarm occurred)	4080&ALM:ON_S_L@0.0	0	1
CNT_CLR	Clear counter	4080&CNT:CLR@0.0	0	1
CNT_OFF	Stop counter	4080&CNT:OFF@0.0	0	1
CNT_ON	Start counter	4080&CNT:ON@0.0	0	1
CNT_R	Read counter value	4080&CNT:R@0.0	0	1
CNT_S	Read counter start/stop status (S=0,stops counting; S=1,starts counting)	4080&CNT:S@0.0	0	1
DO_0	Digital Output	4080&DO@0.0	0	1
DO_1	Digital Output	4080&DO@0.1	0	1

2.4.19 4117

Robust 8-Channel Analog Input Module

Parameter	Description	Channel	Address	Start Bit	Length
AI_0	Analog Input	0	4117&AI@0.0	0	16
AI_1	Analog Input	1	4117&AI@0.1	0	16
AI_2	Analog Input	2	4117&AI@0.2	0	16
AI_3	Analog Input	3	4117&AI@0.3	0	16
AI_4	Analog Input	4	4117&AI@0.4	0	16

Parameter	Description	Channel	Address	Start Bit	Length
AI_5	Analog Input	5	4117&AI@0.5	0	16
AI_6	Analog Input	6	4117&AI@0.6	0	16
AI_7	Analog Input	7	4117&AI@0.7	0	16

2.4.20 4118

Robust 8-Channel Thermocouple Input Module

Parameter	Description	Channel	Address	Start Bit	Length
AI_0	Analog Input	0	4118&AI@0.0	0	16
AI_1	Analog Input	1	4118&AI@0.1	0	16
AI_2	Analog Input	2	4118&AI@0.2	0	16
AI_3	Analog Input	3	4118&AI@0.3	0	16
AI_4	Analog Input	4	4118&AI@0.4	0	16
AI_5	Analog Input	5	4118&AI@0.5	0	16
AI_6	Analog Input	6	4118&AI@0.6	0	16
AI_7	Analog Input	7	4118&AI@0.7	0	16

2.4.21 4150

Robust 15-Channel Digital Input Output Module

Parameter	Description	Channel	Address	Start Bit	Length
DI_0	Digital Input	0	4150&DI@0.0	0	1
DI_1	Digital Input	1	4150&DI@0.1	0	1
DI_2	Digital Input	2	4150&DI@0.2	0	1
DI_3	Digital Input	3	4150&DI@0.3	0	1
DI_4	Digital Input	4	4150&DI@0.4	0	1
DI_5	Digital Input	5	4150&DI@0.5	0	1
DI_6	Digital Input	6	4150&DI@0.6	0	1
DO_0	Digital Output	0	4150&DO@0.0	0	1
DO_1	Digital Output	1	4150&DO@0.1	0	1
DO_2	Digital Output	2	4150&DO@0.2	0	1
DO_3	Digital Output	3	4150&DO@0.3	0	1
DO_4	Digital Output	4	4150&DO@0.4	0	1
DO_5	Digital Output	5	4150&DO@0.5	0	1
DO_6	Digital Output	6	4150&DO@0.6	0	1
DO_7	Digital Output	7	4150&DO@0.7	0	1

2.4.22 4501

Ethernet-enabled Communication Controller with 8-Channel Digital Input Output

Parameter	Description	Channel	Address	Start Bit	Length

Parameter	Description	Channel	Address	Start Bit	Length
DI_0	Digital Input	0	4501&DI@0.0	0	1
DI_1	Digital Input	1	4501&DI@0.1	0	1
DI_2	Digital Input	2	4501&DI@0.2	0	1
DI_3	Digital Input	3	4501&DI@0.3	0	1
DO_0	Digital Output	0	4501&DO@0.0	0	1
DO_1	Digital Output	1	4501&DO@0.1	0	1
DO_2	Digital Output	2	4501&DO@0.2	0	1
DO_3	Digital Output	3	4501&DO@0.3	0	1

2.4.23 4502

Ethernet-enabled Communication Controller with 2-Channel Analog Input Output and 4-Channel Digital Input Output

Parameter	Description	Channel	Address	Start Bit	Length
AI_0	Analog Input	0	4502&AI@0.0	0	16
AO_0	Analog Output	0	4502&AO@0.0	0	16
DI_0	Digital Input	0	4502&DI@0.0	0	1
DI_1	Digital Input	1	4502&DI@0.1	0	1
DO_0	Digital Output	0	4502&DO@0.0	0	1
DO_1	Digital Output	1	4502&DO@0.1	0	1

Parameter	Description	Channel	Address	Start Bit	Length
DO_2	Digital Output	2	4502&DO@0.2	0	1

2.5 Main Parameter List

Parameter	Description	Address	Start Bit	Length
AI	Analog Input	4xxx&AI@0.0	0	16
AI_0	Analog Input	4xxx&AI@0.0	0	16
AI_1	Analog Input	4xxx&AI@0.1	0	16
AI_2	Analog Input	4xxx&AI@0.2	0	16
AI_3	Analog Input	4xxx&AI@0.3	0	16
AI_4	Analog Input	4xxx&AI@0.4	0	16
AI_5	Analog Input	4xxx&AI@0.5	0	16
AI_6	Analog Input	4xxx&AI@0.6	0	16
AI_7	Analog Input	4xxx&AI@0.7	0	16
AO	Analog Output	4xxx&AO@0.0	0	16
AO_0	Analog Output	4xxx&AO@0.0	0	16
AO_1	Analog Output	4xxx&AO@0.1	0	16
AO_2	Analog Output	4xxx&AO@0.2	0	16

Parameter	Description	Address	Start Bit	Length
AO_3	Analog Output	4xxx&AO@0.3	0	16
AO_4	Analog Output	4xxx&AO@0.4	0	16
AO_5	Analog Output	4xxx&AO@0.5	0	16
AO_6	Analog Output	4xxx&AO@0.6	0	16
AO_7	Analog Output	4xxx&AO@0.7	0	16
ALM_CLR	Clear alarm	4xxx&ALM:CLR@0.0	0	1
ALM_CLRH	Clear high alarm	4xxx&ALM:CLR_H@0.0	0	1
ALM_CLRL	Clear low alarm	4xxx&ALM:CLR_L@0.0	0	1
ALM_M	Read alarm mode (0=Disable,1=Enable, 2=Momentary, 3=Latching)	4xxx&ALM:M@0.0	0	1
ALM_H	High alarm	4xxx&ALM:M_H@0.0	0	1
ALM_L	Low alarm	4xxx&ALM:M_L@0.0	0	1
ALM_OFF	Disable alarm	4xxx&ALM:OFF@0.0	0	1
ALM_OFFH	Disable high alarm	4xxx&ALM:OFF_H@0.0	0	1
ALM_OFFL	Disable low alarm	4xxx&ALM:OFF_L@0.0	0	1
ALM_ON_H	Enable high alarm	4xxx&ALM:ON_H@0.0	0	1
ALM_ON_L	Enable low alarm	4xxx&ALM:ON_L@0.0	0	1
ALM_ONLA	Enable Latching alarm	4xxx&ALM:ON_LAT@0.0	0	1
ALM_ONMO	Enable momentary alarm	4xxx&ALM:ON_MOM@0.0	0	1
ALM_S	Read alarm status (0=OFF,	4xxx&ALM:ON_S@0.0	0	1

Parameter	Description	Address	Start Bit	Length
	1=ON)			
ALM_S_H	Read high alarm status (0=No alarm; 1=Alarm occurred)	4xxx&ALM:ON_S_H@0.0	0	1
ALM_S_L	Read low alarm status (0=No Alarm; 1=Alarm occurred)	4xxx&ALM:ON_S_L@0.0	0	1
CNT_CLR	Clear counter	4xxx&CNT:CLR@0.0	0	1
CNT_OFF	Stop counter	4xxx&CNT:OFF@0.0	0	1
CNT_ON	Start counter	4xxx&CNT:ON@0.0	0	1
CNT_R	Read counter value	4xxx&CNT:R@0.0	0	1
CNT_S	Read counter start/stop status (S=0,stops counting; S=1,starts counting)	4xxx&CNT:S@0.0	0	1
DI	Digital Input	4xxx&DI@0.0	0	1
DI_0	Digital Input	4xxx&DI@0.0	0	1
DI_1	Digital Input	4xxx&DI@0.1	0	1
DI_2	Digital Input	4xxx&DI@0.2	0	1
DI_3	Digital Input	4xxx&DI@0.3	0	1
DI_4	Digital Input	4xxx&DI@0.4	0	1
DI_5	Digital Input	4xxx&DI@0.5	0	1
DI_6	Digital Input	4xxx&DI@0.6	0	1
DI_7	Digital Input	4xxx&DI@0.7	0	1

Parameter	Description	Address	Start Bit	Length
DI_8	Digital Input	4xxx&DI@0.8	0	1
DI_9	Digital Input	4xxx&DI@0.9	0	1
DI_10	Digital Input	4xxx&DI@0.10	0	1
DI_11	Digital Input	4xxx&DI@0.11	0	1
DI_12	Digital Input	4xxx&DI@0.12	0	1
DI_13	Digital Input	4xxx&DI@0.13	0	1
DI_14	Digital Input	4xxx&DI@0.14	0	1
DI_15	Digital Input	4xxx&DI@0.15	0	1
DO	Digital Output	4xxx&DO@0.0	0	1
DO_0	Digital Output	4xxx&DO@0.0	0	1
DO_1	Digital Output	4xxx&DO@0.1	0	1
DO_2	Digital Output	4xxx&DO@0.2	0	1
DO_3	Digital Output	4xxx&DO@0.3	0	1
DO_4	Digital Output	4xxx&DO@0.4	0	1
DO_5	Digital Output	4xxx&DO@0.5	0	1
DO_6	Digital Output	4xxx&DO@0.6	0	1
DO_7	Digital Output	4xxx&DO@0.7	0	1
DO_8	Digital Output	4xxx&DO@0.8	0	1
DO_9	Digital Output	4xxx&DO@0.9	0	1
DO_10	Digital Output	4xxx&DO@0.10	0	1

Parameter	Description	Address	Start Bit	Length
DO_11	Digital Output	4xxx&DO@0.11	0	1
DO_12	Digital Output	4xxx&DO@0.12	0	1
DO_13	Digital Output	4xxx&DO@0.13	0	1
DO_14	Digital Output	4xxx&DO@0.14	0	1
DO_15	Digital Output	4xxx&DO@0.15	0	1
DO_R	Digital output read back	4xxx&DO:R@0.0	0	1

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