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## XND601X Driver Manual

*ADLink Technology NuDAM-601X Analog Input Modules Driver*

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## XND601X technical specifications

### General information

The XND601X driver allows you to communicate with ADLink Technology Inc. NuDAM-601X Analog Input Modules.

### Command list

#### Set Configuration

**Description of this command:**

Sets address, input range, baud rate, data format and checksum.

**Methods used to run this command:**

Analog Output / Digital Output

**Number of points accepted by this command:**

5

**Meaning of the DriverP0 parameter:**

Module Original Address (0-255).

**Meaning of the DriverP1 parameter:**

Indicates if current message must include checksum

- 0 = Use checksum in messages
- 1 = No checksum in messages

**Meaning of the DriverP2 parameter:**

20

**Values that are sent:**

Value in PointValue (0) = Defines the type input range code.

- 0 = +/- 15 mV
- 1 = +/- 50 mV
- 2 = +/- 100 mV
- 3 = +/- 500 mV
- 4 = +/- 1 V
- 5 = +/- 2.5 V
- 6 = +/- 20 mA
- 8 = +/- 10 V (6012,6017)
- 9 = +/- 5 V (6012,6017)
- 10 = +/- 1 V (6012,6017)
- 11 = +/- 500 mV (6012,6017)
- 12 = +/- 150 mV (6012,6017)
- 13 = +/- 20 mA
- 14 = Type J Thermocouple 0 to 760 C degrees (6011,6018)
- 15 = Type K Thermocouple 0 to 1000 C degrees (6011,6018)
- 16 = Type T Thermocouple -100 to 400 C degrees (6011,6018)
- 17 = Type E Thermocouple 0 to 1000 C degrees (6011,6018)
- 18 = Type R Thermocouple 500 to 1750 C degrees (6011,6018)
- 19 = Type S Thermocouple 500 to 1750 C degrees (6011,6018)
- 20 = Type B Thermocouple 500 to 1800 C degrees (6011,6018)
- 21 = Type N Thermocouple -270 to 1300 C degrees (6011,6018)
- 22 = Type C Thermocouple 0 to 2320 C degrees (6011,6018)
- 32 = Pt-100, -100 C to +100 C, a=0.00385 (6013)
- 33 = Pt-100, 0 C to +100 C, a=0.00385 (6013)
- 34 = Pt-100, 0 C to +200 C, a=0.00385 (6013)
- 35 = Pt-100, 0 C to +600 C, a=0.00385 (6013)
- 36 = Pt-100, -100 C to +100 C, a=0.003916 (6013)
- 37 = Pt-100, 0 C to +100 C, a=0.003916 (6013)
- 38 = Pt-100, 0 C to +200 C, a=0.003916 (6013)
- 39 = Pt-100, 0 C to +600 C, a=0.003916 (6013)

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- 40 = Ni-100, 0 C to +100 C (6013)
- 41 = Ni-120, 0 C to +100 C (6013)
- Value in PointValue (1) = Defines the baud rate to be used (3-8).
  - 3 = 1200 Bauds
  - 4 = 2400 Bauds
  - 5 = 4800 Bauds
  - 6 = 9600 Bauds
  - 7 = 19200 Bauds
  - 8 = 38400 Bauds
- Value in PointValue (2) = Defines the data format to be used in future messages.
  - 0 = Engineering Units
  - 1 = % of Full Scale Range
  - 2 = 2's complement
  - 3 = Ohms (6013 only)
- Value in PointValue (3) = Defines if future messages must include checksum
  - 0 = No checksum in messages
  - 1 = Use checksum in messages
- Value in PointValue (4) = Defines the new address (0-255).

## Important note:

An analog input module requires a maximum of seven seconds to perform auto calibration and ranging after it is reconfigured. During this time span, the module cannot be addressed to perform any other actions.

## Read Configuration

### Description of this command:

Reads the following parameters: address, input range, baud rate, data format, checksum status, and integration time.

### Methods used to run this command:

Analog Input / Digital Input

### Number of points accepted by this command:

1-4

### Meaning of the DriverP0 parameter:

Module Address (0-255).

### Meaning of the DriverP1 parameter:

Indicates if messages must include checksum

- 0 = Use checksum in messages
- 1 = No checksum in messages

### Meaning of the DriverP2 parameter:

1

### Values that are returned:

Value in PointValue (0) = Indicates the input range type, where:

- 0 = +/- 15 mV
- 1 = +/- 50 mV
- 2 = +/- 100 mV
- 3 = +/- 500 mV
- 4 = +/- 1 V
- 5 = +/- 2.5 V
- 6 = +/- 20 mA
- 8 = +/- 10 V (6012,6017)
- 9 = +/- 5 V (6012,6017)
- 10 = +/- 1 V (6012,6017)
- 11 = +/- 500 mV (6012,6017)
- 12 = +/- 150 mV (6012,6017)
- 13 = +/- 20 mA
- 14 = Type J Thermocouple 0 to 760 C degrees (6011,6018)
- 15 = Type K Thermocouple 0 to 1000 C degrees (6011,6018)
- 16 = Type T Thermocouple -100 to 400 C degrees (6011,6018)
- 17 = Type E Thermocouple 0 to 1000 C degrees (6011,6018)
- 18 = Type R Thermocouple 500 to 1750 C degrees (6011,6018)
- 19 = Type S Thermocouple 500 to 1750 C degrees (6011,6018)
- 20 = Type B Thermocouple 500 to 1800 C degrees (6011,6018)
- 21 = Type N Thermocouple -270 to 1300 C degrees (6011,6018)

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- 22 = Type C Thermocouple 0 to 2320 C degrees (6011,6018)
- 32 = Pt-100, -100 C to +100 C, a=0.00385 (6013)
- 33 = Pt-100, 0 C to +100 C, a=0.00385 (6013)
- 34 = Pt-100, 0 C to +200 C, a=0.00385 (6013)
- 35 = Pt-100, 0 C to +600 C, a=0.00385 (6013)
- 36 = Pt-100, -100 C to +100 C, a=0.003916 (6013)
- 37 = Pt-100, 0 C to +100 C, a=0.003916 (6013)
- 38 = Pt-100, 0 C to +200 C, a=0.003916 (6013)
- 39 = Pt-100, 0 C to +600 C, a=0.003916 (6013)
- 40 = Ni-100, 0 C to +100 C (6013)
- 41 = Ni-120, 0 C to +100 C (6013)

Value in PointValue (1) = Indicates the baud rate code, where:

- 3 = 1200 Bauds.
- 4 = 2400 Bauds.
- 5 = 4800 Bauds.
- 6 = 9600 Bauds.
- 7 = 19200 Bauds.
- 8 = 38400 Bauds.

Value in PointValue (2) = Indicates the configured data format, where:

- 0 = Engineering Units
- 1 = % of Full Scale Range
- 2 = 2's complement
- 3 = Ohms (6013 only)

Value in PointValue (3) = Indicates if the module uses checksum in messages.

- 0 = No checksum in messages
- 1 = Use checksum in messages

## Synchronized Sampling

### Description of this command:

Orders all analog input modules to sample their input values and store the values in special registers.

### Methods used to run this command:

Analog Output / Digital Output

### Number of points accepted by this command:

1

### Meaning of the DriverP0 parameter:

Module Address (0-255).

### Meaning of the DriverP2 parameter:

40

### Values that are sent:

Value in PointValue (0) = Not used.

## Read Synchronized Data

### Description of this command:

Reads the synchronized data.

### Methods used to run this command:

Analog Input / Digital Input

### Number of points accepted by this command:

1-2

### Meaning of the DriverP0 parameter:

Module Address (0-255).

### Meaning of the DriverP1 parameter:

Indicates if messages must include checksum

- 0 = Use checksum in messages
- 1 = No checksum in messages

### Meaning of the DriverP2 parameter:

3

### Meaning of the DriverP3 parameter:

Indicates the data format to be used.

- 0 = Engineering Units
- 1 = % of Full Scale Range

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- 2 = 2's complement
- 3 = Ohms (6013 only)

## Values that are returned:

Value in PointValue (0) = Read value stored in a special register.

Value in PointValue (1) = Status. If status = 1, then the data has been sent for the first time since a Synchronized Sampling command was issued. If status = 0, then the data has been sent at least once before.

## Read Analog Data

### Description of this command:

Obtains the input value from a specified module in the currently configured data format.

### Methods used to run this command:

Analog Input / Digital Input

### Number of points accepted by this command:

1

### Meaning of the DriverP0 parameter:

Module Address (0-255).

### Meaning of the DriverP1 parameter:

Indicates if messages must include checksum

- 0 = Use checksum in messages
- 1 = No checksum in messages

### Meaning of the DriverP2 parameter:

0

### Meaning of the DriverP3 parameter:

Indicates the data format to be used.

- 0 = Engineering Units
- 1 = % of Full Scale Range
- 2 = 2's complement
- 3 = Ohms (6013 only)

### Values that are returned:

Value in PointValue (0) = Analog input value.

## Span Calibration

### Description of this command:

Calibrates to correct for gain errors.

### Methods used to run this command:

Analog Output / Digital Output

### Number of points accepted by this command:

1

### Meaning of the DriverP0 parameter:

Module Address (0-255).

### Meaning of the DriverP1 parameter:

Indicates if messages must include checksum

- 0 = Use checksum in messages
- 1 = No checksum in messages

### Meaning of the DriverP2 parameter:

21

### Values that are sent:

Value in PointValue (0) = Not used.

## Offset Calibration

### Description of this command:

Calibrates to correct for offset errors.

### Methods used to run this command:

Analog Output / Digital Output

### Number of points accepted by this command:

1

### Meaning of the DriverP0 parameter:

Module Address (0-255).

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**Meaning of the DriverP1 parameter:**

Indicates if messages must include checksum  
- 0 = Use checksum in messages  
- 1 = No checksum in messages

**Meaning of the DriverP2 parameter:**

22

**Values that are sent:**

Value in PointValue (0) = Not used.

## Read Analog Data From Channel N

**Description of this command:**

Returns the input value from channel number N of the specified analog input module in the currently configured data format.

**Methods used to run this command:**

Analog Input / Digital Input

**Number of points accepted by this command:**

1

**Meaning of the DriverP0 parameter:**

Module Address (0-255).

**Meaning of the DriverP1 parameter:**

Indicates if messages must include checksum  
- 0 = Use checksum in messages  
- 1 = No checksum in messages

**Meaning of the DriverP2 parameter:**

17

**Meaning of the DriverP3 parameter:**

Indicates the data format to be used.  
- 0 = Engineering Units  
- 1 = % of Full Scale Range  
- 2 = 2's complement  
- 3 = Ohms (6013 only)

**Meaning of the DriverP4 parameter:**

Identifies the channel you want to read (0-7).

**Values that are returned:**

Value in PointValue (0) = Analog input value.

## Read All Analog Data Channels

**Description of this command:**

Returns the input value from all channels of the specified analog inputs module in the currently configured data format.

**Methods used to run this command:**

Analog Input / Digital Input

**Number of points accepted by this command:**

1-8

**Meaning of the DriverP0 parameter:**

Module Address (0-255).

**Meaning of the DriverP1 parameter:**

Indicates if messages must include checksum  
- 0 = Use checksum in messages  
- 1 = No checksum in messages

**Meaning of the DriverP2 parameter:**

98

**Values that are returned:**

Value in PointValue (0) = First analog input value.  
Value in PointValue (1) = Second analog input value.  
...  
Value in PointValue (n-1) = Last analog input value.

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## Enable/Disable Channels for Multiplexing

### Description of this command:

Enables/disables multiplexing simultaneously for separate channels of a specified input module.

### Methods used to run this command:

Digital Output

### Number of points accepted by this command:

8

### Meaning of the DriverP0 parameter:

Module Address (0-255).

### Meaning of the DriverP1 parameter:

Indicates if messages must include checksum

- 0 = Use checksum in messages
- 1 = No checksum in messages

### Meaning of the DriverP2 parameter:

39

### Values that are sent:

Value in PointValue (0) = Disable/enable first channel (0 or 1).

Value in PointValue (1) = Disable/enable second channel (0 or 1).

...

Value in PointValue (7) = Disable/enable last channel (0 or 1).

## Read Channel Status

### Description of this command:

Read the enable/disable status of the 8 channels of the ND-6013, ND-6017 or ND-6018.

### Methods used to run this command:

Analog Input / Digital Input

### Number of points accepted by this command:

1-8

### Meaning of the DriverP0 parameter:

Module Address (0-255).

### Meaning of the DriverP1 parameter:

Indicates if messages must include checksum

- 0 = Use checksum in messages
- 1 = No checksum in messages

### Meaning of the DriverP2 parameter:

99

### Values that are returned:

Value in PointValue (0) = First channel status (0=disabled, 1=enabled).

Value in PointValue (1) = Second channel status (0=disabled, 1=enabled).

...

Value in PointValue (n-1) = Last channel status (0=disabled, 1=enabled).

## Read CJC Status

### Description of this command:

Reads the CJC (cold junction compensation) status.

### Methods used to run this command:

Analog Input / Digital Input

### Number of points accepted by this command:

1

### Meaning of the DriverP0 parameter:

Module Address (0-255).

### Meaning of the DriverP1 parameter:

Indicates if messages must include checksum

- 0 = Use checksum in messages
- 1 = No checksum in messages

### Meaning of the DriverP2 parameter:

2

### Values that are returned:

Value in PointValue (0) = CJC status.

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## CJC Offset Calibration

### Description of this command:

Calibrates to adjust for offset errors of its CJC (cold junction compensation) sensors. The variable value indicates the "count" value. Each count equals approximately 0.0153 celsius degrees.

### Methods used to run this command:

Analog Output / Digital Output

### Number of points accepted by this command:

1

### Meaning of the DriverP0 parameter:

Module Address (0-255).

### Meaning of the DriverP1 parameter:

Indicates if messages must include checksum

- 0 = Use checksum in messages
- 1 = No checksum in messages

### Meaning of the DriverP2 parameter:

23

### Values that are sent:

Value in PointValue (0) = Count value (-65535 to 65535).

## Clear Latched Alarm

### Description of this command:

Both alarm states are set to OFF, no alarm.

### Methods used to run this command:

Analog Output / Digital Output

### Number of points accepted by this command:

1

### Meaning of the DriverP0 parameter:

Module Address (0-255).

### Meaning of the DriverP1 parameter:

Indicates if messages must include checksum

- 0 = Use checksum in messages
- 1 = No checksum in messages

### Meaning of the DriverP2 parameter:

29

### Values that are sent:

Value in PointValue (0) = Not used.

## Clear Event Counter

### Description of this command:

Clear event counter to zero.

### Methods used to run this command:

Analog Output / Digital Output

### Number of points accepted by this command:

1

### Meaning of the DriverP0 parameter:

Module Address (0-255).

### Meaning of the DriverP1 parameter:

Indicates if messages must include checksum

- 0 = Use checksum in messages
- 1 = No checksum in messages

### Meaning of the DriverP2 parameter:

30

### Values that are sent:

Value in PointValue (0) = Not used.

## Disable Alarm

### Description of this command:

Disable all alarm function.

### Methods used to run this command:

Analog Output / Digital Output

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**Number of points accepted by this command:**

1

**Meaning of the DriverP0 parameter:**

Module Address (0-255).

**Meaning of the DriverP1 parameter:**

Indicates if messages must include checksum

- 0 = Use checksum in messages

- 1 = No checksum in messages

**Meaning of the DriverP2 parameter:**

28

**Values that are sent:**

Value in PointValue (0) = Not used.

## Read Digital I/O and Alarm Status

**Description of this command:**

Obtains the current value of digital I/O and alarm status.

**Methods used to run this command:**

Analog Input / Digital Input

**Number of points accepted by this command:**

1-4

**Meaning of the DriverP0 parameter:**

Module Address (0-255).

**Meaning of the DriverP1 parameter:**

Indicates if messages must include checksum

- 0 = Use checksum in messages

- 1 = No checksum in messages

**Meaning of the DriverP2 parameter:**

4

**Values that are returned:**

Value in PointValue (0) = Digital input status.

Value in PointValue (1) = Digital Output 0 status.

Value in PointValue (2) = Digital Output 1 status.

Value in PointValue (3) = Alarm state:

- 0 = Disabled.

- 1 = Momentary mode enabled.

- 2 = Latch mode enabled.

## Set Digital Outputs

**Description of this command:**

Writes digital outputs.

**Methods used to run this command:**

Analog Output / Digital Output

**Number of points accepted by this command:**

2

**Meaning of the DriverP0 parameter:**

Module Address (0-255).

**Meaning of the DriverP1 parameter:**

Indicates if messages must include checksum

- 0 = Use checksum in messages

- 1 = No checksum in messages

**Meaning of the DriverP2 parameter:**

24

**Values that are sent:**

**Values that are sent:**

Value in PointValue (0) = New status for digital output 0 (0 or 1).

Value in PointValue (1) = New status for digital output 1 (0 or 1).

## Enable Alarm

**Description of this command:**

Enables the alarm in either latching or momentary mode.

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**Methods used to run this command:**

Analog Output / Digital Output

**Number of points accepted by this command:**

1

**Meaning of the DriverP0 parameter:**

Module Address (0-255).

**Meaning of the DriverP1 parameter:**

Indicates if messages must include checksum

- 0 = Use checksum in messages

- 1 = No checksum in messages

**Meaning of the DriverP2 parameter:**

25

**Meaning of the DriverP3 parameter:**

Indicates the mode to enable.

- 0 = Momentary mode

- 1 = Latching mode

**Values that are sent:**

Value in PointValue (0) = Not used.

## Set High Alarm

**Description of this command:**

Sets the high alarm limit value.

**Methods used to run this command:**

Analog Output / Digital Output

**Number of points accepted by this command:**

1

**Meaning of the DriverP0 parameter:**

Module Address (0-255).

**Meaning of the DriverP1 parameter:**

Indicates if messages must include checksum

- 0 = Use checksum in messages

- 1 = No checksum in messages

**Meaning of the DriverP2 parameter:**

26

**Values that are sent:**

Value in PointValue (0) = High alarm limit value.

## Set Low Alarm

**Description of this command:**

Sets the low alarm limit value.

**Methods used to run this command:**

Analog Output / Digital Output

**Number of points accepted by this command:**

1

**Meaning of the DriverP0 parameter:**

Module Address (0-255).

**Meaning of the DriverP1 parameter:**

Indicates if messages must include checksum

- 0 = Use checksum in messages

- 1 = No checksum in messages

**Meaning of the DriverP2 parameter:**

27

**Values that are sent:**

Value in PointValue (0) = Low alarm limit value.

## Read Event Counter

**Description of this command:**

Obtains the current event counter value.

**Methods used to run this command:**

Analog Input / Digital Input

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**Number of points accepted by this command:**

1

**Meaning of the DriverP0 parameter:**

Module Address (0-255).

**Meaning of the DriverP1 parameter:**

Indicates if messages must include checksum

- 0 = Use checksum in messages

- 1 = No checksum in messages

**Meaning of the DriverP2 parameter:**

7

**Values that are returned:**

Value in PointValue (0) = Event counter value.

## Read High Alarm Limit

**Description of this command:**

Obtains the current high alarm limit value.

**Methods used to run this command:**

Analog Input / Digital Input

**Number of points accepted by this command:**

1

**Meaning of the DriverP0 parameter:**

Module Address (0-255).

**Meaning of the DriverP1 parameter:**

Indicates if messages must include checksum

- 0 = Use checksum in messages

- 1 = No checksum in messages

**Meaning of the DriverP2 parameter:**

5

**Values that are returned:**

Value in PointValue (0) = High alarm limit value.

## Read Low Alarm Limit

**Description of this command:**

Obtains the current low alarm limit value.

**Methods used to run this command:**

Analog Input / Digital Input

**Number of points accepted by this command:**

1

**Meaning of the DriverP0 parameter:**

Module Address (0-255).

**Meaning of the DriverP1 parameter:**

Indicates if messages must include checksum

- 0 = Use checksum in messages

- 1 = No checksum in messages

**Meaning of the DriverP2 parameter:**

6

**Values that are returned:**

Value in PointValue (0) = Low alarm limit value.

## Error messages

The following list shows the possible error messages that can be returned by the driver during a failed communication in the 'Status' property.

- [1005] DRIVER (Internal): Invalid driver stage
- [1300] PROTOCOL (Timeout): No answer
- [1433] PROTOCOL (Format): Validation error in device response
- [2108] CONFIG (NumValues): Invalid number of channels (must be 2)
- [2110] CONFIG (NumValues): Invalid number of channels (must be 5)
- [2112] CONFIG (NumValues): Invalid number of channels (must be 8)

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[2147] CONFIG (NumValues): Only one value can be read or written  
[2194] CONFIG (NumValues): Too many values (max=2)  
[2216] CONFIG (NumValues): Too many values (max=4)  
[2235] CONFIG (NumValues): Too many values (max=8)  
[3014] CONFIG (P0): Invalid device address (0-255)  
[4030] CONFIG (P2): Invalid command  
[4531] CONFIG (P3): Invalid data format (0-3)  
[4544] CONFIG (P3): Invalid mode (0 or 1)  
[5004] CONFIG (P4): Invalid channel number (0-7)  
[8060] CONFIG (Remote): Command is invalid or not supported  
[8248] CONFIG (Remote): Operation is not supported

## Supported devices

---

This driver can communicate with these devices, but is not necessarily limited to this list:

ADLINK TECHNOLOGY NuDAM-6011 Analog Input Modules  
ADLINK TECHNOLOGY NuDAM-6012 Analog Input Modules  
ADLINK TECHNOLOGY NuDAM-6013 Analog Input Modules  
ADLINK TECHNOLOGY NuDAM-6017 Analog Input Modules  
ADLINK TECHNOLOGY NuDAM-6018 Analog Input Modules

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