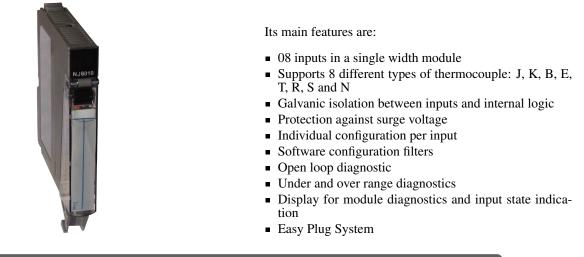
1. Product Description

Nexto Series is a powerful and complete Programmable Logic Controller (PLC) Series with unique and innovative features. Due to its flexibility, smart design, enhanced diagnostics capabilities and modular architecture, Nexto is suitable for control systems ranging from medium to high-end large applications. Finally, its compact size, high density of points per module and superior performance, allow Nexto Series to be applied in small automation systems with high performance requirements, such as manufacturing applications and industrial machines.

In this context, Nexto Jet is a selection of I/O modules that uses the existing CPUs and modules from Nexto Series to provide the best solution for applications in verticals like infrastructure, building, water, wastewater, food, machines and several OEM projects. Nexto Jet is ideal for systems with no hot-swapping and conformal coating requirements.

Finally, the module NJ6010 has eight thermocouple analog inputs which can be individually configured to different kinds of thermocouple. Also, this module provides different temperature scales either in Celsius or Fahrenheit. Besides, due to its configurable filters, it also can be used in automation processes, where both low pass filter and notch filter are commonly required and it is a module that uses one rack position.



ATTENTION

Starting from product revision AJ, it was included the connector frontal cover (which was previously exclusive of NX models), thus adding the Easy Plug System feature to this product.

2. Ordering Information

2.1. Included Items

The product package contains the following items:

- NJ6010 Module
- 20-terminal connector with wire holder

2.2. Product Code

The following code should be used to purchase the product:



Code	Description			
NJ6010	8 AI Thermocouple Module			

Table 1: Product Code

3. Related Products

The following product must be purchased separately when necessary:

Code	Description				
NX9403	20-terminal connector with cable guides				

 Table 2: Related Products

4. Innovative Features

Nexto Series brings to the user many innovations regarding utilization, supervision and system maintenance. These features were developed focusing a new concept in industrial automation.



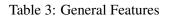
Easy Plug System: Nexto Series has an exclusive method to plug and unplug I/O terminal blocks. The terminal blocks can be easily removed with a single movement and with no special tools. In order to plug the terminal block back to the module, the frontal cover assists the installation procedure, fitting the terminal block to the module.

5. Product Features

5.1. General Features

	NJ6010		
Backplane rack occupation	1 slot		
Number of inputs	8 analog inputs		
Input type	Thermocouple, type: J, K, B, E, T, R, S and N.		
Input state indication	Yes		
One Touch Diag (OTD)	No		
Electronic Tag on Display (ETD)	No		
Status and diagnostic indication	Display, web pages and CPU's internal memory		
Hot swap capability	No		
Module protection	Yes, protection against surge voltages		
Wire gauge	0,5 mm ² (20 AWG)		
Minimum wire temperature rating	75 °C		
Wire material	Copper only		
Isolation			
Inputs to logic	1500 Vac / 1 minute		
Inputs to protective earth 🖨 1500 Vac / 1 minute			
Logic to protective earth 🖨	1250 Vac / 1 minute		
Current consumption from backplane rack 270 mA			

	NJ6010		
Maximum power dissipation	3 W		
IP level	IP 20		
Operating temperature	0 to 60 °C		
Storage temperature	-25 to 75 °C		
Operating and storage relative humidity	5% to 96%, non-condensing		
Module dimensions (W x H x D)	18.00 x 114.62 x 117.46 mm		
Package dimensions (W x H x D)	25.00 x 122.00 x 147.00 mm		
Net weight	200 g		
Gross weight	250 g		



Nota:

Wire gauge: Crimp terminals for 0.5 mm^2 wire in each way respecting as described at Nexto Series User Manual - MU214600.

5.2. Standards and Certification

Standards and Certifications					
IEC	61131-2: Industrial-process measurement and control - Programmable controllers - Part 2: Equipment requirements and tests				
CE	2014/30/EU (EMC) 2014/35/EU (LVD) 2011/65/EU and 2015/863/EU (ROHS)				
UK CA	S.I. 2016 No. 1091 (EMC) S.I. 2016 No. 1101 (Safety) S.I. 2012 No. 3032 (ROHS)				
	UL/cUL Listed – UL 61010-1 UL 61010-2-201 (file E473496)				
EAC	TR 004/2011 (LVD) CU TR 020/2011 (EMC)				

Table 4: Standards and Certifications

5.3. Thermocouple Mode Features

	NJ6010 – Thermocouple Mode			
Temperature drift	$\pm 0.001\%$ / °C of full scale rating			
Data format	16 bits in two's complement, justified to the left			
Converter resolution	16 bits	monotonicity guara	nteed, no missing codes	
Measurement unit		Configurable	: °C or °F	
Input impedance		> 1 N	ſΩ	
Continuous maximum voltage without damage		30 V	dc	
Noise suppression filter		60 Hz or	50 Hz	
Low pass filter		First order di	igital filter	
Low pass filter time constant		200 ms, 1 s, 10	-	
Maximum common mode voltage		±1500 i		
Common mode rejection		120 dB @	9 60 Hz	
Crosstalk between channels				
@ 100 Hz		-30 dB	min	
Open thermocouple detection		Indicated in the	e diagnostics	
Cold junction compensation	Compensation range 0 to 80 °C Accuracy ±1 °C @ 0 to 80 °C range			
Conversion time				
50 Hz		81 n	18	
60 Hz	68 ms			
Maximum conversion time				
50 Hz	650 ms			
60 Hz	542 ms			
	Model	Temperature	Accuracy @ 25 °C	
	J	-210 to 1200 °C	0.10%	
	K	-250 to -200 °C	0.22%	
		-200 to 1372 °C	0.10%	
		250 to 500 °C	0.45%	
	B	500 to 1050 °C	0.22%	
		1050 to 1800 °C	0.12%	
	E	-230 to 1000 °C	0.15%	
The sum a second such as a day of C	Т	-220 to -180 °C	0.45%	
Thermocouple mode: °C ITS-90 curve		-180 to 400 °C	0.25%	
115-90 curve	п	-50 to 0 °C 0 to 200 °C	0.30% 0.14%	
	R			
		200 to 1768 °C	0.08% 0.30%	
	1	-50 to 0 °C	0.30%	
	6	0 4 200 00		
	S	0 to 200 °C		
	S	200 to 1768 °C	0.08%	
		200 to 1768 °C -250 to -200 °C	0.08% 0.30%	
	S N	200 to 1768 °C -250 to -200 °C -200 to -150 °C	0.08% 0.30% 0.15%	
	N	200 to 1768 °C -250 to -200 °C -200 to -150 °C -150 to 1300 °C	0.08% 0.30% 0.15% 0.08%	
	N Model	200 to 1768 °C -250 to -200 °C -200 to -150 °C -150 to 1300 °C Temperature	0.08% 0.30% 0.15% 0.08% Accuracy	
	N	200 to 1768 °C -250 to -200 °C -200 to -150 °C -150 to 1300 °C	0.08% 0.30% 0.15% 0.08%	

	NJ6010 – Thermocouple Mode			
		-328 to 2501 °F	0.10%	
		482 to 932 °F	0.45%	
	В	932 to 1922 °F	0.22%	
		1922 to 3272 °F	0.12%	
	E	-382 to 1832 °F	0.15%	
	Т	-364 to -292 °F	0.45%	
Thermocouple mode: °F		-292 to 752 °F	0.25%	
ITS-90 curve		-58 to 32 °F	0.30%	
	R	32 to 392 °F	0.14%	
		392 to 3214 °F	0.08%	
		-58 to 32 °F	0.30%	
	S	32 to 392 °F	0.14%	
		392 to 3214 °F	0.08%	
		-418 to -328 °F	0.30%	
	N	-328 to -238 °F	0.15%	
		-238 to 2372 °F	0.08%	

Table 5: Thermocouple Mode Features

Notes:

Noise suppression filter: This parameter enables or disables a filter that rejects a particular frequency in the measurements, but this rejection includes a delay per enabled input for data acquisition, which depends on the selected frequency. It is important to consider the delays presented while developing an application. The value of the selected filter in this parameter will be applied to all module reading inputs.

Conversion time: Each module channel corresponds to an enabled input.

Maximum conversion time: The conversion time shown in the table above refers to the total conversion time for the 8 channels according to the selected noise suppression filter.

Accuracy: The informed accuracy is in percentage of the maximum temperature value of each thermocouple type. Example: For thermocouple type R in the range 0 to 200 °C the percentage error is 0.14% of the 1768 °C maximum temperature, in this case the accuracy is 2.48 °C.

5.4. Compatibility with Other Products

The following table brings information regarding the compatibility between NJ6010 module and others Nexto Series Products.

NJ6010		Compatible Software Version			
Version Revision		NX3004	NX30x0	NX5110	MasterTool IEC XE
1.0.0.6 or higher	AA or higher	1.5.1.2 or higher	1.5.1.2 or higher	1.1.1.3 or higher	2.03 or higher

 Table 6: Compatibility with Other Products

Note:

Revision: If the software is upgraded in the field the product revision indicated on the label will no longer match the actual revision of the product.

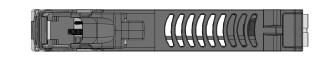
ATTENTION

The CPUs, racks and the PROFIBUS remote head of Nexto Series support the use of Nexto Jet Modules. The Nexto Jet is formed by I/Os modules and when used in configuration with CPUs or PROFIBUS remote head of Nexto Series, no other I/O type of Nexto Series can be used in the same bus.



5.5. Physical Dimensions

Dimensions in mm.



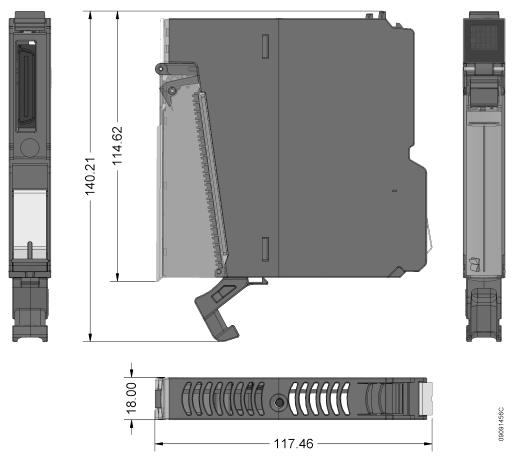


Figure 1: Physical Dimensions

6. Installation

For the correct installation of this product, it is necessary to use a rack (backplane rack) and it must be carried out according to the mechanical and electrical installation instructions that follow.

6.1. Product Identification

This product has some parts that must be observed before installation and use. The following figure identifies each of these parts.

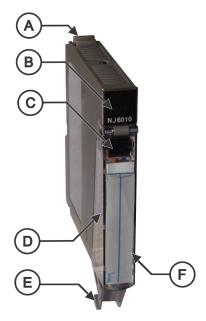


Figure 2: NJ6010

- A Fixing lock.
- B Status and diagnostic display.
- © Terminal block extraction lever.
- D Front cover.
- E 20 pin terminal block with wire holder.
- (E) Label for module identification.

The product has in its mechanics a label that identifies it and in it are presented some symbols whose meaning is described below:

Attention! Before using the equipment and installing, read the documentation.

— Direct Current.

6.2. Electrical Installation

The figure below shows an example where four inputs are used: input 00, input 02, input 03 and input 06. Each input presents a different connection, as explain below.



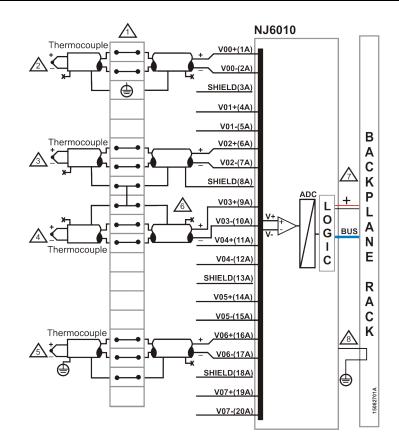


Figure 3: Electric Diagram

Diagram Notes:

- The diagram above has the representation a set of terminal blocks where each symbol represents a different kind of terminal block: represents a standard feed-through terminal block, represents a grounding terminal block, and represents a feed-through terminal block with connection to other terminal block.
- Input 00 is connected to a thermocouple sensor, placed on the field. The cable shielding of this input is connected to the grounding terminal block.
- Input 02 is connected to a thermocouple sensor, placed on the field. The cable shielding of this input and input 03 is connected to the shield pin which is shared between these two inputs.
- Input 03 is connected to a thermocouple sensor, placed on the field. The cable shielding of this input and input 02 is connected to the shield pin which is shared between these two inputs.
- Input 06 is connected to a thermocouple sensor, placed on the field. The cable shielding of the input 06 is connected to the earth close to the device on the field.
- There is one shield pin for each pair of inputs.
- The module power supply is derived from the connection to the backplane rack and does not require external connections.
 - 3 NJ6010 module is connected to the protective earth \bigoplus through the backplane rack.



Protection earth terminal.



6.3. Connector Pinout

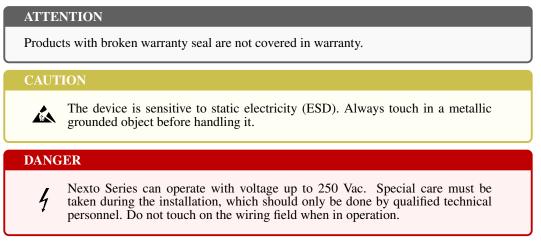
The following table shows the description of each connector terminal:

Terminal	Description		
1	Input 00		
2	Reference input 00		
3	Shield		
4	Input 01		
5	Reference input 01		
6	Input 02		
7	Reference input 02		
8	Shield		
9	Input 03		
10	Reference input 03		
11	Input 04		
12	Reference input 04		
13	Shield		
14	Input 05		
15	Reference input 05		
16	Input 06		
17	Reference input 06		
18	Shield		
19	Input 07		
20	Reference input 07		

Table 7: Connector Pinout

6.4. Mechanical and Electrical Assembly

The mechanical and electrical mounting and the connector pin insertion and removing for single hardware width I/O modules are described at Nexto Series User Manual – MU214600.



7. Configuration

This module was developed to be used with Nexto Series products. All Nexto Series products are configured in MasterTool IEC XE. All configuration data of a given module can be accessed through a double click in it on the Graphical Editor.

7.1. Process Data

Process Data are the variables used to access the module. The table below describes all the variables made available by this module when declared on the CPU or MODBUS Head bus.

In addition to the data in the table, this product also provides a set of variables containing information related to diagnostics, which are also described in this document.

Variable	Size	Process Data	Description	Туре	Update
%IW(n)	WORD	AI 00	Analog Input 00	INT (Reading)	Always
%IW(n+2)	WORD	AI 01	Analog Input 01	INT (Reading)	Always
%IW(n+4)	WORD	AI 02	Analog Input 02	INT (Reading)	Always
%IW(n+6)	WORD	AI 03	Analog Input 03	INT (Reading)	Always
%IW(n+8)	WORD	AI 04	Analog Input 04	INT (Reading)	Always
%IW(n+10)	WORD	AI 05	Analog Input 05	INT (Reading)	Always
%IW(n+12)	WORD	AI 06	Analog Input 06	INT (Reading)	Always
%IW(n+14)	WORD	AI 07	Analog Input 07	INT (Reading)	Always

Table 8: Process Data

Note:

Update: The field "Update" indicates if the respective process data is updated by CPU and NJ6010 module by default. When defined as "Always", it means that the process data is always updated. When defined as "Selectable", it means that the user can select if the respective process data will be updated or not. All these process data are exchanged between CPU and NJ6010 module through the bus, to improve CPU performance. It is recommended to update only the process data that will be used in the application.

7.1.1. PROFIBUS Data

When the module is inserted on the bus of a PROFIBUS Head, the variable type will be WORD. In this case, we recommend using symbolic variables of type INT, declared with the AT directive at the same addresses as the direct variables. Example, considering the direct variable %IW(n) from the previous table:

```
iChannel_0 AT %IW(n): INT;
```

The values sent by PROFIBUS are of the integer type. For example, on a channel configured as Thermocouple type J (-210°C to 1200° C), the temperature of -210°C will be converted to a value of -2100.

7.2. Module Parameters

Name	Description	Standard Value	Options	Configuration
Noise Suppression Filter	Frequency of the noise suppression filter	60 Hz	50 Hz 60 Hz	Per module



Name	Description	Standard Value	Options	Configuration
Temperature Unit	Defines the temperature unit (°C or °F)	Degree Celsius	Degree Celsius Degree Fahrenheit	Per module
Туре	Defines the thermocouple type	Not Configured	Not Configured J K B E T R S N	Per input
Digital Filter	First order digital filter time constant (ms)	Disabled	Disabled 200 ms 1 s 10 s	Per input
Cold Junction Compensation	Enables or disables the cold junction compensation	Enabled	Disabled Enabled	Per input
%Q Start Address of Module Diagnostics Area	Defines the start address of the module diagnostics	-		Per module

 Table 9: Module Parameters

8. Usage

8.1. General Purpose Input Read

NJ6010 has one variable for each input, which will be presented in the temperature scale defined in the Temperature Unit, where the value is multiplied for 10. Thus, a 25 °C temperature, for example, is read as 250.

9. Maintenance

Altus recommends that all modules' connections should be checked and any dust or any kind of dirt located in the module's enclosure should be removed at least every 6 months.

This module offers important features to assist users during the maintenance: Status and Diagnostics Indicators, Web Page with Complete Status and Diagnostics List, and Diagnostics Mapped to Variables.

9.1. Web Page with Complete Status and Diagnostics List

Another way to access diagnostics information on Nexto Series is via web pages. Nexto Series CPU's has an embedded web page server that provides all Nexto status and diagnostics information, which can be accessed using a simple browser.

More information about web page with complete status and diagnostics list can be found at User Manual of each respective CPU (listed at Nexto Series User Manual - MU214600).



9.2. Status and Diagnostics Indicators

Nexto I/O modules have a display with the following symbols: D, E, \Box , \exists and numerical characters. The states of the symbols D, E, \Box and \exists are common for all Nexto Series I/O modules. These states can be consulted in the table below.

9.2.1. D and E States

D	E	Description	Cause	Solution	Priority
Off	Off	Display failure or module off	 Module disconnected; External power supply failure; Hardware failure. 	Check: - If the module is com- pletely connected to the rack; - If the rack is powered by an external source; - If the module has external power.	-
On	Off	Normal use	-	-	9 (Lower)
Blinking 1x	Off	Active diagnostics	There is at least one active diagnostic re- lated to the module.	Check what the active di- agnostic is. More informa- tion can be found at section Diagnostics Through Vari- ables.	8
Blinking 2x	Off	No I/O data update	 CPU in STOP mode; Head/Remote in non-ACTIVE state. 	Check: - If the CPU is in operation; - If the Fieldbus Master is in operation; - The integrity of the net- work between the MOD- BUS Client and the Head- /Remote.	7
Blinking 3x	Off	Reserved	-	-	6
Blinking 4x	Off	Non-fatal fault	Failure in some hardware or soft- ware component, which does not have impact on the basic functionality of the product.	Check the module's diag- nostic information. If it is a hardware failure, have the part replaced. If it's software, contact Technical Support.	5
Off	Blinking 2x	Loss of bus master	Loss of communica- tion between: - The module and the CPU; - The module and the Head/Remote; - The Head/Remote and the Field Net- work Master.	Check: - If the module is com- pletely connected to the rack; - If the CPU is in RUN mode; - If the Fieldbus Master is in operation; - Network integrity be- tween PROFIBUS Master and Head/Remote.	4



D	E	Description	Cause	Solution	Priority
Off	Blinking 3x	Module without calibration	 The module is not calibrated; There was an error with the calibration value. 	The module must return to the manufacturer.	3
Off	Blinking 1x	Missing or parameterization error	The module isn't pa- rameterized.	Check: - If the module parameteri- zation is correct; - Network integrity be- tween PROFIBUS Master and Head/Remote; - Network integrity be- tween PROFINET Con- troller and Head/Remote.	2
Off	Blinking 4x	Fatal hardware fault	Hardware fault.	The module must return to the manufacturer.	1 (Higher)

Table 10: Status of Symbols D and E

Notes:

Field net master: There are different field net solutions, using different nomenclatures to refer to the net master. Examples: Profibus Master, MODBUS Client, PROFINET Controller, etc.

Module without calibration: Only valid for modules that have calibration, typically analog modules. Modules that do not have calibration will never show such an indication through the symbols D and E.

9.2.2. 0, 1 and Numerical Characters

The meaning of the numerical characters can be different for specific modules. In case of analog modules, the numerical characters show the respective state of each input. When the numerical character is on, the respective input is configured and enabled, and if the numerical character is off, the respective input is disabled. The relationship between the input number and its respective numerical character can be found on the following figure.

The segments \square and \square are used to group the numerical characters used for the first 8 I/O and the numerical characters used for the last 8 I/O. In case of NJ6010 only the character \square is on. The figure below shows the relation between numerical characters and the respective input.

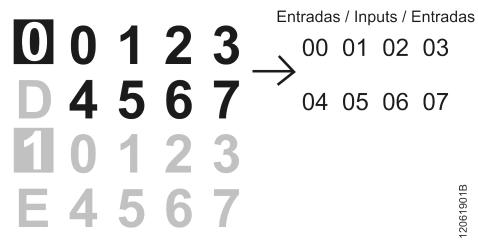


Figure 4: Display

9.3. Diagnostics Through Variables

All diagnostics in this module can be accessed through variables that can be handled by the user application or even forwarded to a supervisory system using a communication channel. There are two different ways to access diagnostics in the user application: using symbolic variables with AT directive or addressing memory. Altus recommends use symbolic variables for diagnostic accessing. The table below shows all available diagnostics for this module and their respective memory address, description, symbolic variable and string that will be shown on the CPU graphical display and web.

9.3.1. General Diagnostics

Direct Variable		Diagnostic Message	Symbolic Variable DG_NJ6010.tGeneral.*	Description	PROFIBUS Message Code
Variable	Bit				
	0	INPUT 00 W/ DIAG	bActiveDiagnosticsInput00	TRUE – Input 00 has active diagnostics	_
		-		FALSE – Input 00 has no ac- tive diagnostics	
	1	INPUT 01 W/ DIAG	bActiveDiagnosticsInput01	TRUE – Input 01 has active diagnostics	-
	-	-		FALSE – Input 01 has no ac- tive diagnostics	
	2	INPUT 02 W/ DIAG	bActiveDiagnosticsInput02	TRUE – Input 02 has active diagnostics	-
		-		FALSE – Input 02 has no ac- tive diagnostics	
	3	INPUT 03 W/ DIAG	bActiveDiagnosticsInput03 -	TRUE – Input 03 has active diagnostics	-
		-		FALSE – Input 03 has no ac- tive diagnostics	
%QB(n)	4	INPUT 04 W/ DIAG	bActiveDiagnosticsInput04	TRUE – Input 04 has active diagnostics	-
		-		FALSE – Input 04 has no ac- tive diagnostics	
	5	INPUT 05 W/ DIAG	bActiveDiagnosticsInput05	TRUE – Input 05 has active diagnostics	-
		- UACUVEDIAGI	on terrebinghosties inputos	FALSE – Input 05 has no ac- tive diagnostics	
	6	INPUT 06 W/ DIAG	bActiveDiagnosticsInput06	TRUE – Input 06 has active diagnostics	-
		-		FALSE – Input 06 has no ac- tive diagnostics	
	7	INPUT 07 W/ DIAG	bActiveDiagnosticsInput07	TRUE – Input 07 has active diagnostics	-
		-	on terrebrughosticsinputo/	FALSE – Input 07 has no ac- tive diagnostics	
	0	MODULE W/ DIAGNOSTICS	bActiveDiagnostics	TRUE – Module has active diagnostics	_
		NO DIAG		FALSE – Module has no ac- tive diagnostics	
	1	MODULE W/ FATAL ERROR	bFatalError	TRUE – Fatal error	25





8 AI Thermocouple Module

Direct Variable		Diagnostic Message	Symbolic Variable DG_NJ6010.tGeneral.*	Description	PROFIBUS Message Code
Variable	Bit				
		-		FALSE – No fatal error	
	2	CONFIG. MISMATCH	hCourf a Mismodok	TRUE – Parameterization error	26
	2	-	bConfigMismatch	FALSE – Parameterization ok	
%QB(n+1)	3	WATCHDOG ERROR	bWatchdogError	TRUE – Watchdog has been detected FALSE – No watchdog	27
	4		Reserved		
	5	CALIBRATION ERROR -	bCalibrationError	TRUE – Module without calibrationFALSE – Module calibrated	29
	6	COLD JUNC. SENS. ERROR -	bColdJunctionSensorError	TRUE – High temperature in the cold junction sensor FALSE – Normal tempera- ture in the cold junction sen- sor	30
	7	Reserved			

Table 11: General Diagnostics

9.3.2. Detailed Diagnostics

Direct Variable		Diagnostic Message	Symbolic Variable DG_NJ6010.tDetailed .tAnalogInput_XX.*	Description	PROFIBUS Message Code
Variable	Bit				
% QB (n+2 +XX*2)	07	Reserved			
	0	OVER RANGE	bOverRange	TRUE – Input data is over range	24
		-		FALSE – Input data is ok	
	1	UNDER RANGE	bUnderRange	TRUE – Input data is under range	25
%QB (n+2+ 2*XX +1)		-		FALSE – Input data is ok	
	2	OPEN LOOP	bOpenLoop	TRUE – Input is open FALSE – Input is ok	26
	3		bInputNotEnable ⁽¹⁾	TRUE – Input is not enabled FALSE – Input is enabled	-
	47	Reserved			

Table 12: Detailed Diagnostics

Notes:

⁽¹⁾: This diagnosis does not apply to the module when declared on the Profibus Heads or PROFINET Heads bus. It is valid only when the module is declared on the UCPs or MODBUS Heads bus.



Under Range: This diagnostic turns true when the input value is 1% of the full scale rating below the scale. E.g. for the thermocouple type J -210 to 1200 $^{\circ}$ C scale, under range diagnostic turns true for measurements below -222 $^{\circ}$ C.

Over Range: This diagnostic turns true when the input value is 1% of the full scale rating above the scale. E.g. for the thermocouple type J -210 to 1200 °C scale, over range diagnostic turns true for measurements above 1212 °C.

Open loop: This diagnostic is true when the module detects that there is a condition of broken cable, in this condition the over range diagnostic can also occur due to the form of open loop detection.

Direct representation variable: "n" is the address defined in the field %Q Start Address of Module Diagnostics Area on the NJ6010's configuration screen – Module Parameters tab in the MasterTool IEC XE, "XX" is the channel of analog input.

Symbolic Variable: Some symbolic variables serve to accessing diagnostics. This diagnostics are stored into the addressing memory, then the AT directive is used to map the symbolic variables in the addressing memory. The AT directive is a reserved word in the MasterTool IEC XE that uses this directive to declare the diagnostics automatically on a symbolic variables. All symbolic variables declared automatically can be found inside of Diagnostics object.

10. Manuals

For further technical details, configuration, installation and programming, the table below should be consulted.

The table below is only a guide of some relevant documents that can be useful during the use, maintenance, and programming of this product.

Code	Code Description	
CE114000	Nexto Series – Technical Characteristics	English
CT114000	Série Nexto – Características Técnicas	Portuguese
CS114000	Serie Nexto – Características Técnicas	Spanish
MU214600	Nexto Series User Manual	English
MU214000	Manual de Utilização Série Nexto	Portuguese
MU299609	MU299609 MasterTool IEC XE User Manual	
MU299048	MU299048 Manual de Utilização MasterTool IEC XE	
MP399609	MasterTool IEC XE Programming Manual	English
MP399048	MP399048 Manual de Programação MasterTool IEC XE	
MU214608	MU214608 Nexto PROFIBUS-DP Head Utilization Manual	
MU214108	MU214108 Manual de Utilização da Cabeça PROFIBUS-DP Nexto	

Table 13: Related Documents