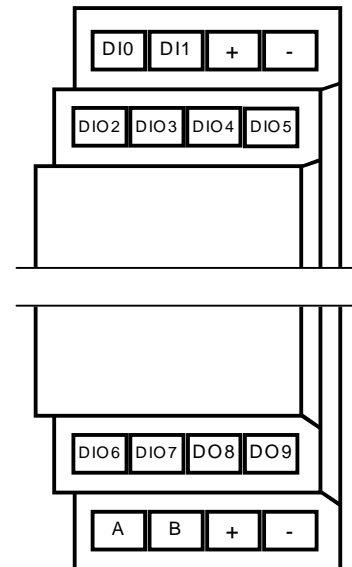


1 General function

The AM2000-0106 (or "262" for short) is a universal I/O device containing two digital inputs, two digital outputs and six fully software configurable inputs-outputs.

The I/O functions are managed by LonMark compliant application software. A variety of configuration properties simplify the reconfiguration process. The product is supplied with LNS PlugIn software with user-friendly graphics interface. These features make the device an ideal tool for serving a wide range of applications



2 Technical data

2.1 General

Transceiver	FTT-10A
Neuron® Chip	3120@/10MHz
Power supply	24V DC (16..32 V DC)
Operating temperature range	0..50 °C
Storage temperature range	-20..+70 °C
Relative humidity	0..75 % annual average (non-condensing)
Environmental protection	IP20
Compliance	CE, LonMark Compatible
Installation	35 mm DIN rail mounting

2.2 Digital Inputs

Inputs	2 digital inputs
Nominal voltage	24 V DC
Max. Input voltage	33 V DC
Input impedance	10 kΩ
Low level input	< 3 V
High level input	> 5 V

2.3 Universal Digital Inputs/Outputs

Configurable inputs/outputs	6 digital inputs/outputs
Nominal voltage	24 V DC
Max. Input voltage	= Supply Voltage
Input impedance	10 kΩ
Low level input	< 3 V
High level input	> 5 V

2.4 Digital Outputs

Outputs..... 2 digital outputs OC
 Max. Output current..... 500mA

2.5 Terminal type

Type Detachable screw terminals
 Cable type..... Max. 2,5 mm²

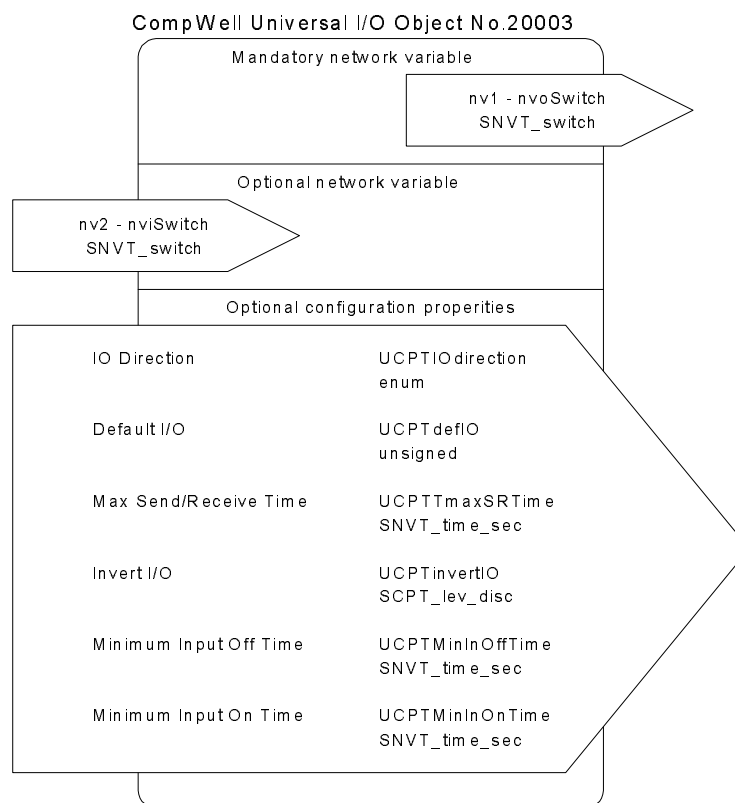
3 LonMark[®] objects

3.1 Node object (object #0)

The "262" use standard Node object with direct memory read/write configuration properties.

3.2 Universal I/O object (object #1 to #10)

3.2.1 Diagram



3.2.2 Functions

Universal I/O object represents an one input or one output of the device. The 262 deploys ten identical universal objects but objects 1 and 2 can only be configured as input and 9 and 10 can only be configured as output (i.e. the IOdirection properties for these objects are read only). Each object contains one input network variable and output network variable. Depending on I/O direction variables perform different function (see next chapter).

3.2.3 Network variables

Name	Type	Description
nviSwitch	SNVT_switch	<ul style="list-style-type: none"> • When object is output: network variable represents device's digital output state. • When object is input: network variable is unused.
nvoSwitch	SNVT_switch	<ul style="list-style-type: none"> • When object is output: network variable performs feedback function. • When object is input: network variable represents device's digital input state.

3.2.4 Configuration properties

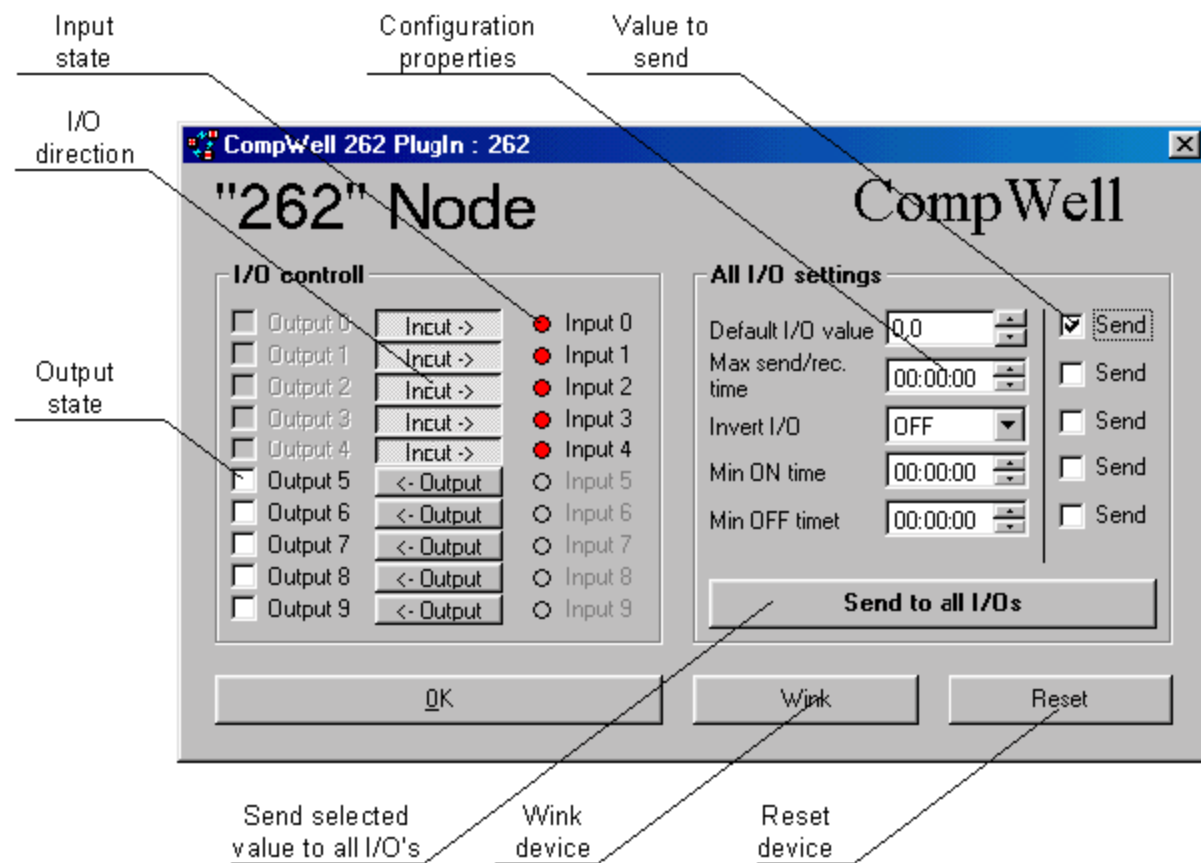
Name	Type	Description
UCPTIOdirection	Enumeration: 0 – INPUT 1 – OUTPUT	Direction of digital I/O. For first and last two block this value is read only.
UCPTdefIO	Unsigned (0-100%)	<ul style="list-style-type: none"> • When object is output: default state on digital output after reset or when maximal receives time was exceeding. • When object is input: default nvoSwitch value after reset and nvoSwitch value when digital input is in high state.
UCPTmaxSRTTime	SNVT_time_sec	<ul style="list-style-type: none"> • When object is output: receive heartbeat. This configuration property is used to control the maximum time that elapses after the last update to the input network variable before the output adopts the default value. • When object is input: send heartbeat. This configuration property is used to control the maximum period of time that expires before the object automatically transmits the current value of output network variable.
UCPTinvertIO	SCPT_lev_disc	Enables (ST_ON) or disables (ST_OFF) inverting of digital I/O.

Name	Type	Description
UCPTMinInOffTime	SNVT_time_sec	<ul style="list-style-type: none"> When object is output: time that must expire with OFF input variable state before digital output will change state to LOW. When object is input: time that must expire with LOW digital input state before network variable will change state to OFF.
UCPTMinInOnTime	SNVT_time_sec	<ul style="list-style-type: none"> When object is output: time that must expire with ON input variable state before digital output will change state to HIGH. When object is input: time that must expire with HIGH digital input state before network variable will change state to ON.

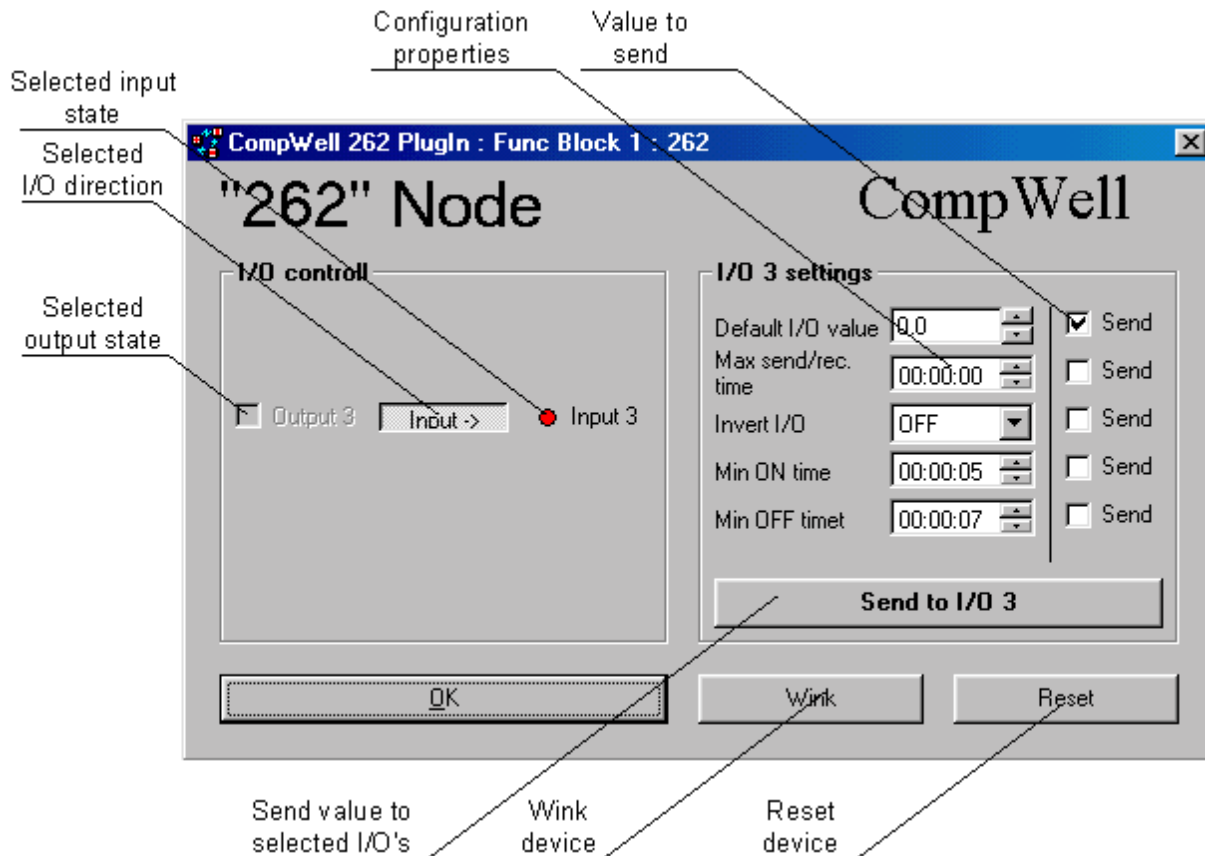
4 LNS PlugIn

4.1 Screenshots

4.1.1 Whole device configuration



4.1.2 Single object configuration



4.2 Function

The 262 PlugIn simplifies significantly the process of configuring the device. When the “Whole Device” configuration mode is activated (the PlugIn is launched for “device” block) the selected parameters apply to all I/O objects. When “Single Object” configuration mode is used (the PlugIn is launched for “function block”) the chosen parameters apply only to the selected object.

In the process of installing the Setup Program of the 262 PlugIn installs also all necessary files like device resource file etc. However in some cases the user have to install DRFs manually. It is described in details in the LNS documentation and in general terms in next chapter.

5 Device Resource File

For installing a DRFs the “LNS Resource File Catalog Utility” program located in “Echelon LNS Utilities” directory should be used.

1. Copy Device Resource File to “LonWorks\Types\User\CompWell” directory.
2. Launch “LNS Resource File Catalog Utility” program
3. Click “OK” on “start-up” window.
4. Click “OK” on “open a catalog” window.
5. Click “Add A New Directory” button on a “edit a catalog” window:



6. Find “LonWorks\Types\User\CompWell” directory and click “OK”.
7. Click “Refresh Now” button on a “edit a catalog” window.
8. Click “Exit”

WARNING:

It is strongly recommended the installation of all necessary files like DRF and PlugIn is made before the device is added to the network.

6 File location

All download files are available from CompWell website:

www.compwell.biz