YAMORC®
DIGITAL

YD7010

MULTI LAN PROTOCOL COMMAND STATION
CONFIGURATION GUIDE

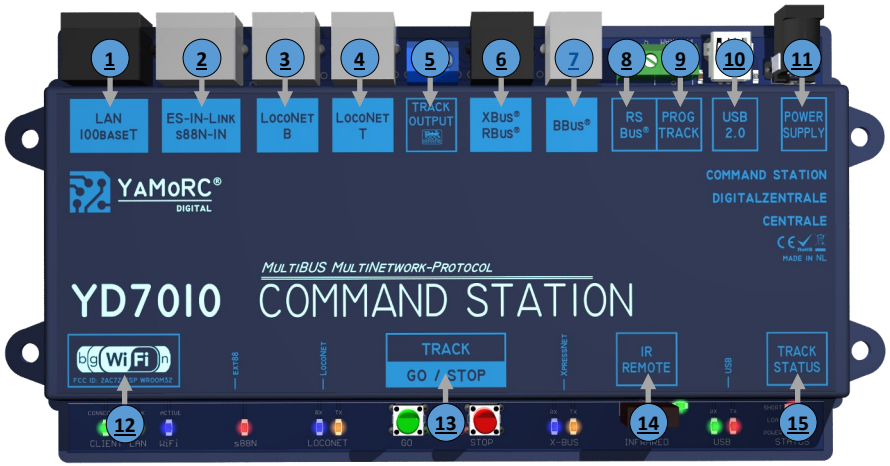
(2025-04-14)



Designed by Karst Drenth
Made in Germany
Assembled in NL

Overview of the configuration menu of theYD7010

The individual configuration menus of the YD7010 are called up simply by clicking on the individual buttons. Clicking on the individual tabs calls up further menu items. A brief overview of the menu structure is shown here.



1) Lan 100Base —>
   >Basic LAN settings (activate protocols, etc.)
   >Expert settings (IP addresses, subnet, port settings, etc.)
   >**Web**

2) ES-Link
   s88N-IN —>
   >ES-Link Call up configuration
   >s88 Module configuration settings (number of modules, 1st address feedback range, start delay, etc.)'
   >Inputs (configuration of the YD6016ES-xx)
   >s88 Bus Monitor (feedback monitor of the connected S88 modules)

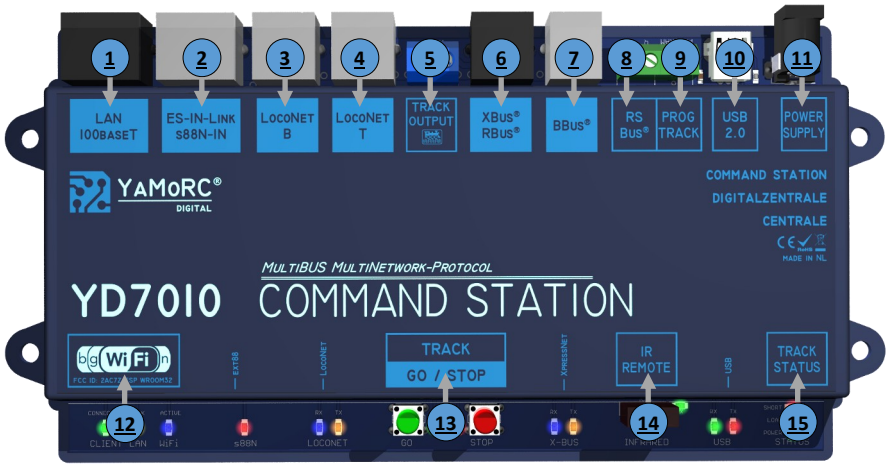
3) Loconet® B —>
   >LNCV Programming
   >Feedback monitor for all feedback devices
   >Booster (Display of all YD703 boosters)
   >Settings (Railcom® rerailing direction)
   >Expert (Normally no settings are necessary here.)

4) Loconet® T —>
   >LNCV Programming
   >Feedback monitor for all feedback devices
   >Settings (Railcom® rerailing direction)
   >Expert (Normally no settings are necessary here.)

5) Track Out —>
   >Track (Railcom® on/off, maximum track current, short-circuit delay, etc.)
   >Track Status (temperature of the track amplifier, track current, track voltage)
   >Locos (highest short address, standard speed steps, assignment of speed steps for certain locomotives)
   >Slots (Display of the Loconet slots)
   >Turnout (Selection of whether switching according to RCN-213 or MultiMaus®, minimum and maximum switching time of the accessory addresses)

Overview of the configuration menu of theYD7010

The individual configuration menus of the YD7010 are called up simply by clicking on the individual buttons. Clicking on the individual tabs calls up further menu items. A brief overview of the menu structure is shown here.



5) Track Out —>

>Expert

>Track (Railcom® Cut Out Polarity, Railcom Auto Cut Off, etc.)

>Turnout (Transmit RCN-217 accessory addresses, LDT points decoder special option, number of repetitions of points commands)

>DCC packets (number of repetitions of DCC commands to the track)

6) XBus®/RBus® —>

>Settings (XPressNet® off/on, XPressNet® software version, feedback base address, RBus on/off, first feedback contact, etc.)

>RBus® Monitor (feedback monitor of the connected RBus® modules)

>RBus® module programming (wizard for assigning the module address to feedback modules on the RBus®)

>Expert (send locomotive info broadcast, start of XPressNet® feedback numbers, RBus® query time)

7) BBus® —>

>BBus® properties (short-circuit delay BBus® booster)

8) RB-Bus® —>

>Settings (RS-Bus® scanning on/off, LDT® timing on/off)

>RS-Bus®Observe (feedback monitor of the connected RS-Bus® modules)

>RB-Bus® module programming (wizard for assigning the module address to feed back modules on the R-Bus®)

9) Prog.Track —>

>Prog.Track CV Programming (mode selection, read and write CV values)

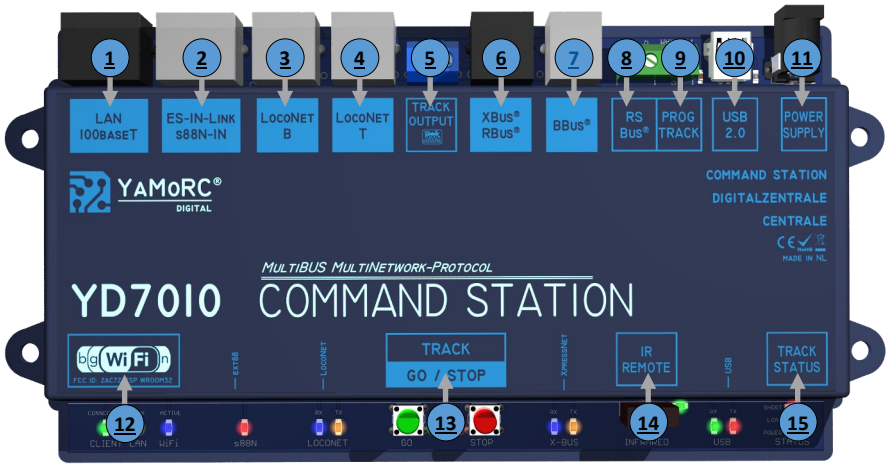
>Test driving (Control panel for test driving a locomotive)

>Prog.Track Settings (Einstellungen Programmiergleis)

>Expert (Advanced settings programming track, normally no settings are necessary here)

Overview of the configuration menu of theYD7010

The individual configuration menus of the YD7010 are called up simply by clicking on the individual buttons. Clicking on the individual tabs calls up further menu items. A brief overview of the menu structure is shown here.



10) [USB 2.0](#) —>

[>USB properties](#) (USB interfaces, connection, update firmware, restore factory settings)

11) [PowerSupply](#) —>

[>Power supply](#) (energy status, track voltage)

12) [WiFi](#) —>

[>Basic settings](#) (SSID, Password)

[>Expert](#) (WiFi, DHCP, YD9401 info, IP settings, Firmware update YD9401, Restore factory settings, Restart YD9401

>Web

13) [Track Go/Stop](#) —>

[>Control Properties](#) **(**YD7010 connection, log window on/off, language, [call up speed controller](#), [call up control panel,](#) export/import settings, temperature info,)

[>Properties](#) (Saving and landing locomotive data, track voltage on after restart, switch-on delay, function of the stop button)

>Script

14) [IR Remote](#) —>

[IR Properties](#) (IR sensor on/off, set functions)

15) [Track Status](#) —>

[Track Status Properties](#) (information on temperature, track voltage, utilisation)

Lan basic settings



1) **Connection type**
Selection of the connection type of the LAN module.

DHCP (Dynamic IP)	*Dynamic IP address assignment. The YD7010 is automatically assigned the IP address by the router.*
STATIC (Fixed IP)	*The IP address of the YD7010 is permanently assigned.*
OFF	*LAN module is deactivated.*

2) **IP address**
The assigned IP address is displayed here.

3) **Link Status**
Connection status Display of the LAN connection.

DOWN	*No connection via LAN. No LAN cable connected.*
UP xxx Mbps,Full Duplex	*Connection via LAN with speed xxx.*

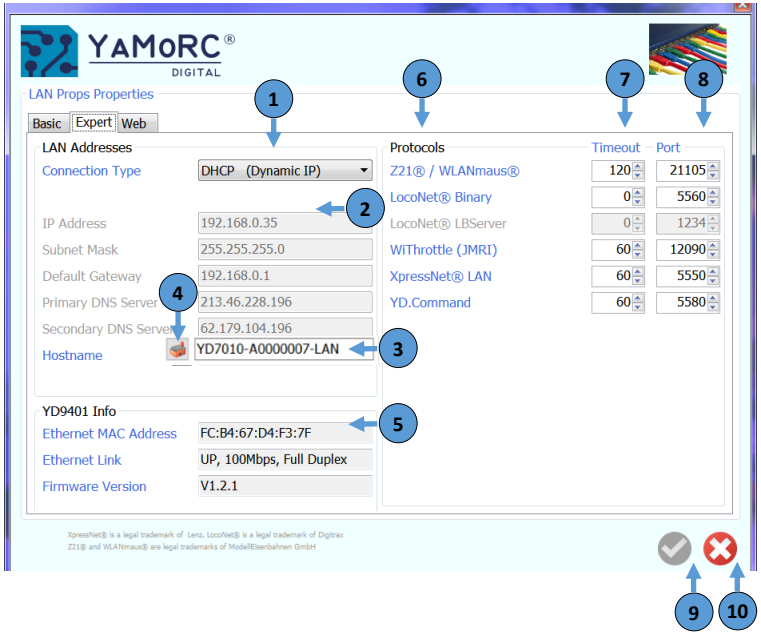
4) **Protocols Activated**
The YD7010 can provide various control protocols via the LAN/WLAN interface. The individual switches can be used to activate or deactivate the respective protocols. The YD7010 can provide all protocols simultaneously.

5) **Client Connection**
Display of the connected clients, hand controllers, app, etc. that are connected to the YD7010.

6) **Save** settings
The changed settings are only applied permanently once the green tick has been activated.

7) Close **menu**

Menü Lan **Expert**



1) **Connection type**
Selection of the connection type of the LAN module.

DHCP (Dynamic IP)	*Dynamic IP address assignment. The YD7010 is automatically assigned the IP address by the router.*
STATIC (Fixed IP)	*The IP address of the YD7010 is permanently assigned.*
OFF	*LAN module is deactivated.*

2) **IP address, subnet mask, standard gateway, primary and secondary DNS server**
*If **DHCP** is activated, the IP address assigned by the router etc. is displayed here. With the **STATIC** (fixed IP) connection type, these settings must be assigned individually.*

3) **Host name**
Host name of the YD7010 that is displayed in the home network

4) **Reset host name to factory setting**
Pressing this button resets the host name of the YD7010 to the factory setting. The host name is formed from the name YD7010 and the serial number.

5) **YD9401 Info**
Information display of the YD9401. The Mac address, connection status and firmware version are displayed here.

6) **Protocols**
The YD7010 can process the protocols listed here simultaneously.

7) **Timeout**
The YD7010 terminates the connection after this time if it is inactive.

8) **Port**
*Port to which the YD7010 is connected. **Attention!** This port may need to be adapted in the control software used.*

9) **Save** settings
The changed settings are only applied permanently once the green tick has been activated.

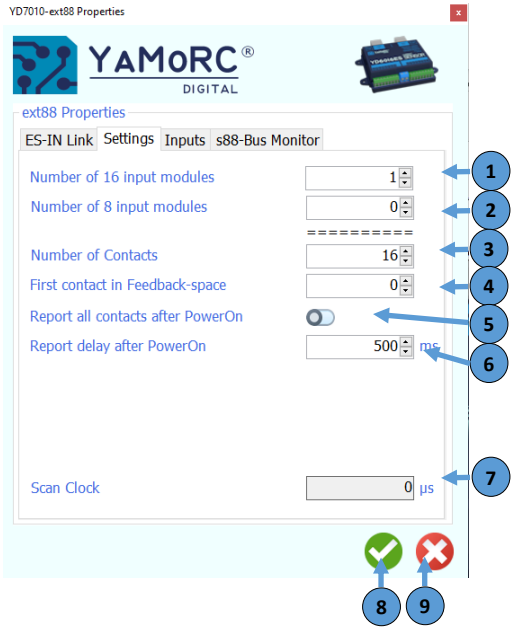
10) Close **menu**

ES-Link Settings



Select the ES-Link configuration menu of the individual modules connected via ES-Link by double-clicking. The corresponding configuration menu opens automatically.

ES-Link / s88N-IN Settings



1) **Number of 16-input modules**
Enter the number of modules with 16 feedback inputs.
Attention! *If no modules are connected to the YD7010 via s88, a 0 must be entered here.*

2) **Number of 8-input modules**
Enter the number of modules with 8 feedback inputs
Attention! *If no modules are connected to the YD7010 via s88, a 0 must be entered here.*

3) **Numbers of Contact**
Total number of feedback contacts that are connected via s88. Normally no entry is necessary here as the number is calculated automatically.

4) **1st contact in the feedback area**
This specifies which contact is the first contact of the s88 range. ***Attention!*** *This address must be unique and must not be assigned in any other feedback area (R-Bus®, LocoNet®).*

5) **Switch Report contacts after Power on**
Feedback signals are signalled to the YD7010 after switching on the track voltage.

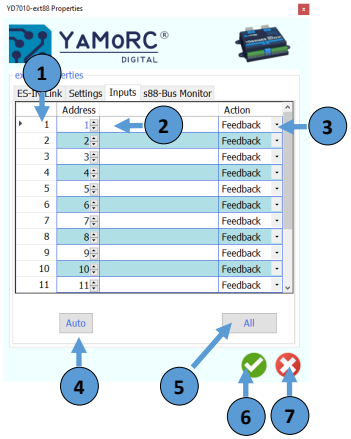
6) **Report delay after Power on**
After this time, the reading of the module's sensors is started and the sensors are transmitted to the control centre. (voltage on at the bus)

7) **Scan Clock**
(diagnostic function no input possible)

8) **Save** settings
The changed settings are only applied permanently once the green tick has been activated.

9) Close **menu**

Menü **ES-Link / s88N-IN Input**



1) **Hardware input number**
(cannot be changed, for display purposes only)

2) **Enter the individual feedback address**
A freely selectable address in the value range 1-2048 can be defined here. Attention! These addresses must be unique and must not be assigned in any other feedback area (R-Bus®, LocoNet®).

3) **Action of the feedback unit**
The selected sensor can be pre-assigned with various actions. For example, points can be set when the sensor is reached. However, the sensors can then no longer be read by the PC software.

Possible specifications:		
	Feedback	The hardware input works as a normal feedback sensor.
	Turnout I/	The hardware input switches off the accessory address with the address of the feedback unit when the hardware input is actuated.
	Turnout/	The hardware input switches the turnout with the accessory address of the feedback unit.
	Turnout I	The hardware input switches the turnout with the accessory address of the feedback unit.
	Turnout<>	The hardware input switches the turnout alternately with the accessory address of the feedback unit (toggling).
Power on		The hardware input activates the track voltage.
Power off		The hardware input activates the global emergency stop. The TrackOut is switched off and thus de-energised.
Power <>		The hardware input activates and deactivates the emergency stop (toggling).
Emergency		The hardware input activates the global emergency stop. The track out is not switched off, only the locomotives are stopped.
Emergency<>		The hardware input activates and deactivates the emergency stop (toggling).

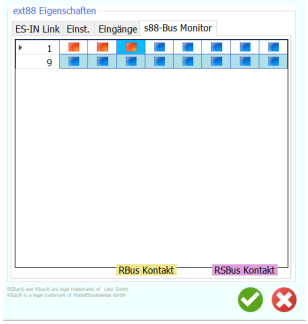
4) **By clicking,** the feedback addresses are automatically pre-assigned consecutively.

5) **By clicking,** all actions with the first selected action are automatically pre-assigned consecutively.

6) **Save** settings
The changed settings are only applied permanently once the green tick has been activated.

7) Close **menu**

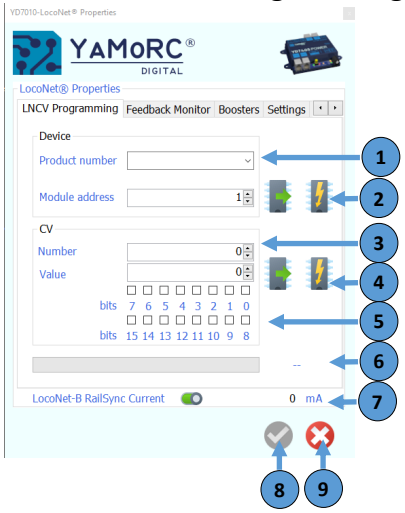
ES-Link / s88N-IN Bus Monitor



s88 Bus Monitor (feedback monitor of the connected s88 modules)

The s88 bus monitor displays the status of the individual s88 feedback devices. If a sensor is recognised as occupied, this is indicated by a red square.

Loconet® LNCV Programming



1) **Product Number**
In this selection field, the product number (normally the order number of the module) must be selected or entered numerically.

2) **Modul address (LNCV 1)**
Read or write module address button
The LocoNet® address of the module to be read out is entered here. This is the number 1 in the delivery state. This module address must be assigned individually for a new module. Make sure that only one module is connected to the LocoNet® at a time. The module address is read out with the Read button and the module address is transferred to the connected module with the Write button.

3) **LNCV Number** which is to be read/written
Value that was read or the value to be written to the selected LNCV.

4) **Button Read or write** LCNV value

5) **Bits**
By ticking the desired bits, the bit pattern can be selected as an alternative to direct CV value input.

6) **Status** of the readout or programming process

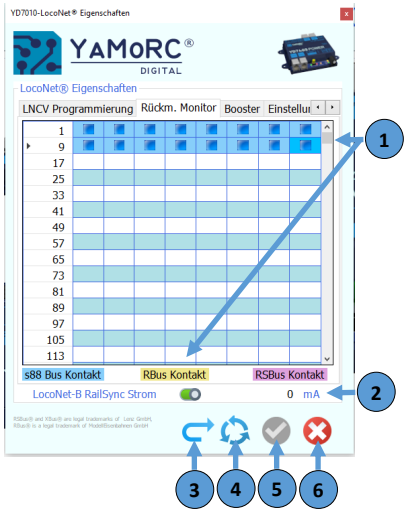
OK	*Readout and write process OK.*
Fail	*Read/write operation failed.*
TimeOut	*No decoder recognised.*
No Reed	*No read result*

7) **LocoNet® RailSync Current**
The switch activates the measuring function for the RailSync current. This display shows the current RailSync current in mA (LocoNet® load).

8) **Save** settings
The changed settings are only applied permanently once the green tick has been activated.

9) Close **menu**

Loconet® feedback monitor for all feedback devices



1) **Feedback monitor** for all feedback devices
*If a sensor is recognised as occupied, this is indicated by a **red** square. The other sensors (s88, RBus, RSBus) are marked with the corresponding colours.*

2) **LocoNet® RailSync Current**
The switch activates the measuring function for the RailSync current. This display shows the current RailSync current in mA (LocoNet® load).

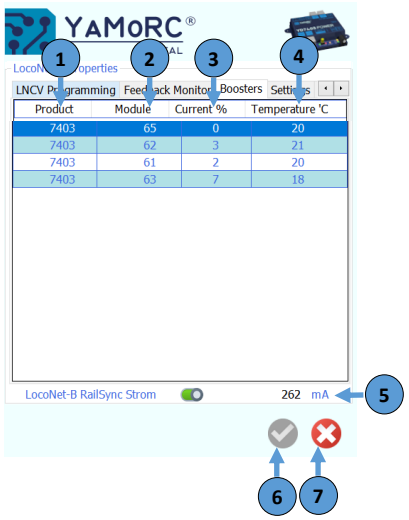
3) **Update** feedback monitor.

4) **Delete** feedback monitor current display .
After the display of the feedback monitor has been deleted, the display must be updated again *by pressing the '**Update** 'button.*

5) **Save** settings
The changed settings are only applied permanently once the green tick has been activated.

6) Close **menu**

Loconet® Booster



1) **Product**
Product number of the displayed booster. This is generally the order number of the respective manufacturer.

2) **Modul**
LCNV Module address of the displayed booster. This address must be unique and is assigned in LNCV 1.

3) **Current %**
The load of the respective booster is displayed here as a %.

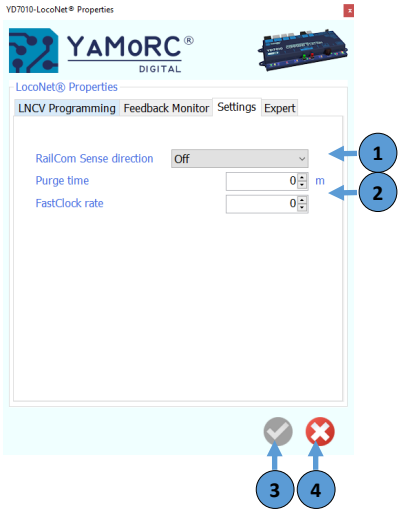
4) **Temperature in °C**
Display of the current temperature of the respective booster in °C.

5) **LocoNet® B RailSync Current**
The switch activates the measuring function for the RailSync current. This display shows the current RailSync current in mA (LocoNet® load).

6) **Save** settings
The changed settings are only applied permanently once the green tick has been activated.

7) Close **menu**

Loconet® Settings



1) **Railcom® Sens direction**
This selection field is used to define how the locomotive's rerailing direction is determined via Railcom, if feedback devices with RailCom® function are connected.

OFF	*No rerailing direction is transmitted.*
in Block Address	*The rerailing direction is transmitted in the block address. (restriction of the block addresses to a maximum of 2048).*
in Lok Address	*The rerailing direction is transferred in the locomotive address. (Restriction of the locomotive addresses to a maximum of 4095).*

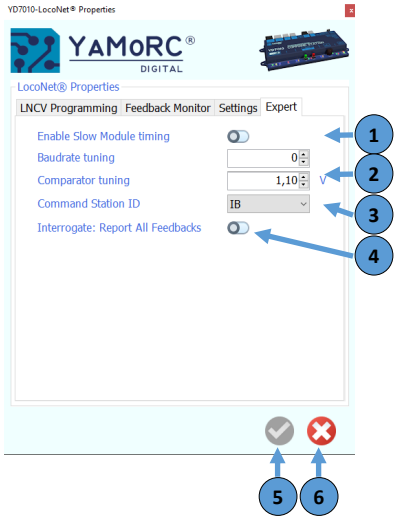
Note: *When using our YD6016LN-RC, YD7432, YD7652 or the DR5088RC, DR5052 and DR5013, this* setting *can remain* ***OFF*** *if OPC_MULTI_SENSE_LONG is configured in the respective modules.*

2) **These two input fields are used for diagnosis.**
Normally no input is necessary.

3) **Save** settings
The changed settings are only applied permanently once the green tick has been activated.

4) Close **menu**

Loconet® Expert



1) **Enable Slow Modul timing**
This switch can be activated if older LocoNet® bus devices have problems with data transmission.

2) **These two input fields are used for diagnosis.**
Normally no input is necessary.

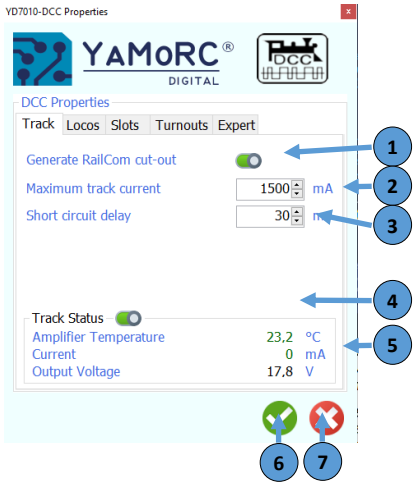
3) **Command station ID**

4) **Interrogate: Report All Feedbacks**
If this switch is activated, the alarm panel responds to interrogate addresses (all sensors report).

5) **Save** settings
The changed settings are only applied permanently once the green tick has been activated.

6) Close **menu**

Track Out DCC Properties Track



1) **Generate the RailCom® cut-out**
If this switch is activated, the YD7010 generates the RailCom cut-out.

2) **Maximum track current**
This setting can be used to specify the maximum current in mA that the YD7010 makes available at the main track output .

3) **Short-circuit delay**
The time specified here delays the switch-off of the main track output in mS after a short circuit has been detected.

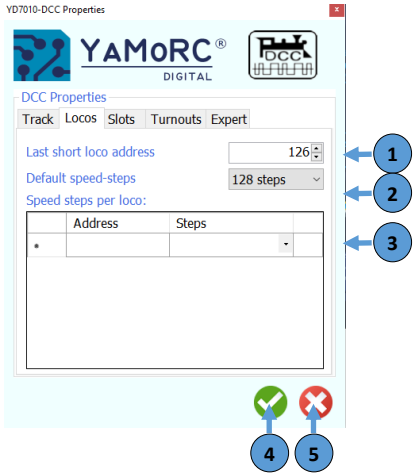
4) **Track status** switch
If this switch is activated, the YD7010 displays information on the track amplifier temperature, current track current and the current track voltage.

5) **Information display**
*Current track amplifier temperature in degrees*d
Current track current in mA
Current track voltage in V

6) **Save** settings
The changed settings are only applied permanently once the green tick has been activated.

7) Close **menu**

Track Out DCC Properties Locos



1) **last short loco address**
The address up to which the YD7010 works with short locomotive addresses (CV1) is specified here.

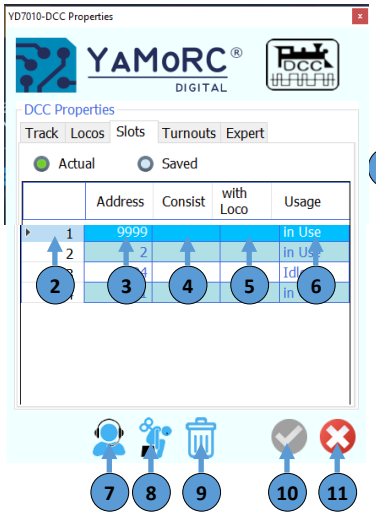
2) **default Speed step**
*The number of speed steps with which **ALL** DCC locomotive decoders are addressed is specified here. Possible settings are 14, 28 and 128 speed levels.*

3) **Speed step per Loco**
If a DCC locomotive decoder needs to be addressed with a different number of speed levels than those entered in the ‘ Standard speed levels’input field , the corresponding number of speed levels can be assigned to the respective DCC address here.

4) **Save** settings
The changed settings are only applied permanently once the green tick has been activated.

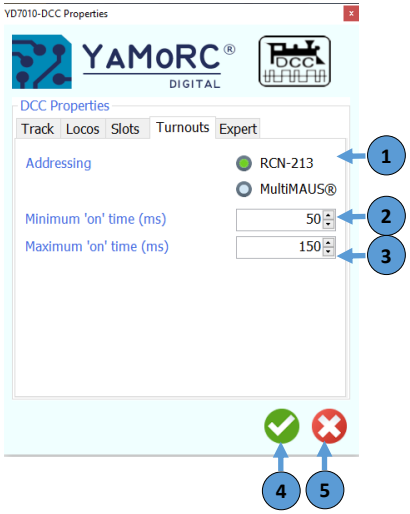
5) Close **menu**

Track Out DCC Slots



1) Selection Display of the **current** or **saved** LocoNet® slots
2) **Slot number**
3) Locomotive **address** assigned to the slot number
4) **Multiple traction** active
5) Multiple traction with **locomotive** X
6) **in Use**
   in USE
   IDLl
   Com
7) ???
8) ???
9) ???
10) **Save** settings
    The changed settings are only applied permanently once the green tick has been activated.
11) Close **menu**

Track Out DCC Properties Turnouts



1) **Addressing**
Here you can select whether the accessory commands (points, etc.) are sent according to the Roco® Multimaus control centre specification or according to RCN-213 (factory setting).

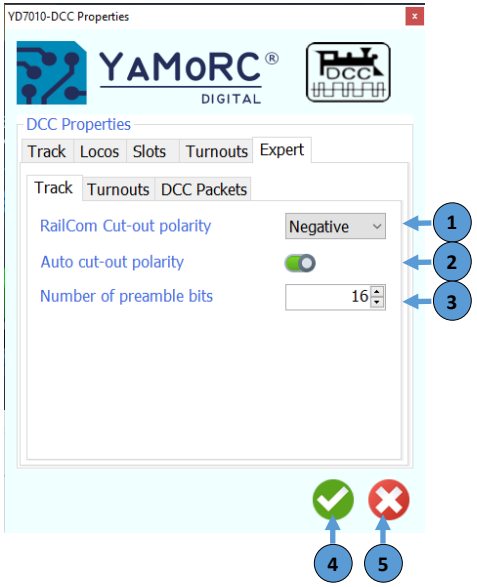
2) **Minimum on time (ms)**
This time defines the minimum switch-on time of the accessory addresses (points, etc.) before the switch-off command is sent.

3) **Maximum on time (ms)**
This time defines the maximum switch-on time of the accessory addresses (points, etc.) before the switch-off command is sent. This setting is particularly important for accessory decoders that do not have an internal maximum switching time. If this time is set too high, this can lead to damage to points etc. with these accessory decoders.

4) **Save** settings
The changed settings are only applied permanently once the green tick has been activated.

5) Close **menu**

Track Out DCC Properties Track



1) **Railcom® Cut-out polarity**
This setting can be used to manually determine which Railcom® polarity the YD7010 should generate if Auto-Cut-Out is deactivated.

2) **Auto-Cut-Out polarity**
This switch is used to select whether the polarity of the Railcom® Cut-Out is automatically reversed if necessary.

3) **Number of 'preamble' bits** *(Normally no setting is necessary here).*

4) **Save** settings
The changed settings are only applied permanently once the green tick has been activated.

5) Close **menu**

Track Out DCC Properties Turnouts



1) **Send RCN-217 Accessory NOP**
Explanation see RCN-217 from page 17.

2) **LDT Turnout decoder**
Some older LDT points decoders have a problem with the polarity of the signals. If such a decoder has a problem and does not switch correctly, this switch can be activated.

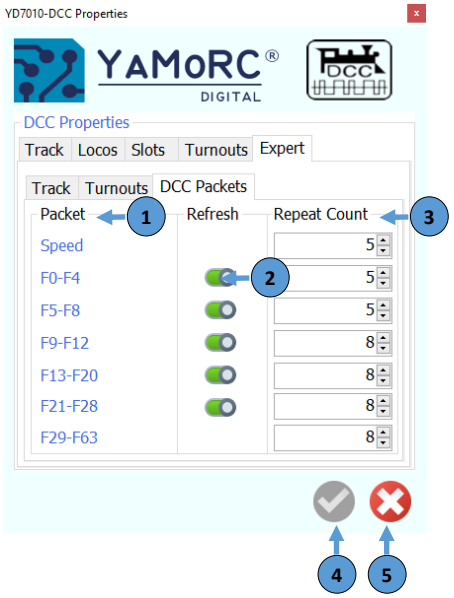
3) **Signal polarity**
The signal polarity can be preselected here if an LDT points decoder does not switch correctly.

4) **Turnout packet repeat count**
Number of times the soft packet is repeated. If a decoder does not always switch reliably, this number can be increased.
Note: The higher the number, the more the track signal is loaded.

5) **Save** settings
The changed settings are only applied permanently once the green tick has been activated.

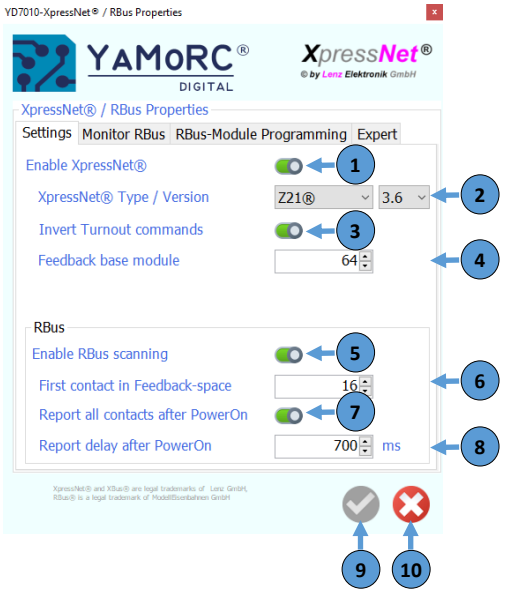
6) Close **menu**

Track Out DCC Properties Expert DCC-Packets



1) **Packet** (Speed, F1-F63 functions)
2) **Refresh**
   These switches are used to define which functions are kept in the YD7010 refresh.
3) **Repeat Count** of the DCC command packets
   Number of times the corresponding DCC command packet is repeated. If a decoder does not always switch reliably, this number can be increased. Please note that the higher the number, the more the track signal is loaded.
4) **Save** settings
   The changed settings are only applied permanently once the green tick has been activated.
5) Close **menu**

XBus®/RBus® Settings



1) **Enable XPressNet®**
This switch is used to switch the XPressNet® bus on or off.

2) Select **XPressNet® Centre and Version**
These two selection fields are used to select which control centre the YD7010 reports to the XPressNet® participants and to select the version of Xpresssnet® to be used.

3) **Invert turnout commands**
This switch swaps the points commands.

4) **Feedback base module**
Address from which the YD7010 reports feedback to the XPressNet®. See Lenz XPressNet® documentation.

5) **Enable RBus® scanning** *This switch is used to switch the RBus® on or off.*

6) **First contakt in Feedback-space**
This specifies which contact is the first contact of the RBus® area.
***Attention!** This address must be unique and must not be* assigned*in any other feedback area (s88, LocoNet®).*

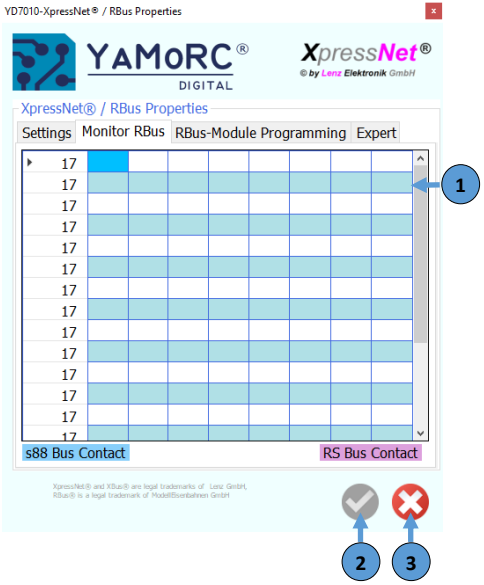
7) **Report all contacts after Power On**
The feedback contacts are polled after switching on the voltage.

8) **Report delay after Power On**
After this time in mS, the contacts are queried.

9) **Save** settings
The changed settings are only applied permanently once the green tick has been activated.

10) Close **menu**

RBus® Monitor



1) **RBus® Monitor** (feedback monitor of the connected XPressNet® or RBus® modules)
*The RBus® Monitor displays the status of the individual RBus® sensors. If a sensor is recognised as occupied, this is indicated by a **red** square.*

2) **Save** settings
The changed settings are only applied permanently once the green tick has been activated.

3) Close **menu**

RBus® Module-Programming



1) **Modul type**
This selection field is used to select the desired module to be configured.

2) **Module adress**
The first module address that the module is to receive is assigned here.

3) **Next**
This button starts the wizard for parameterising the module after the first address has been entered.

4) **Save** settings
The changed settings are only applied permanently once the green tick has been activated.

5) Close **menu**

RBus® Properties Expert



1) **Enable Lok Infos broadcast**
Activates Broadcast Lok Info via USB and LAN. Option for WinDigipet®

2) **Report feedback from modul**
Address from which the YD7010 sends feedback information. See Lenz XPressNet® documentation.

3) **RBus® scan cycle**
Time between queries of the RBus® modules.

4) **Save** settings
The changed settings are only applied permanently once the green tick has been activated.

5) Close **menu**

BBus® Properties



1) **Short circuit delay**
The time specified here delays the switch-off of the main track output in mS after a short circuit has been detected.

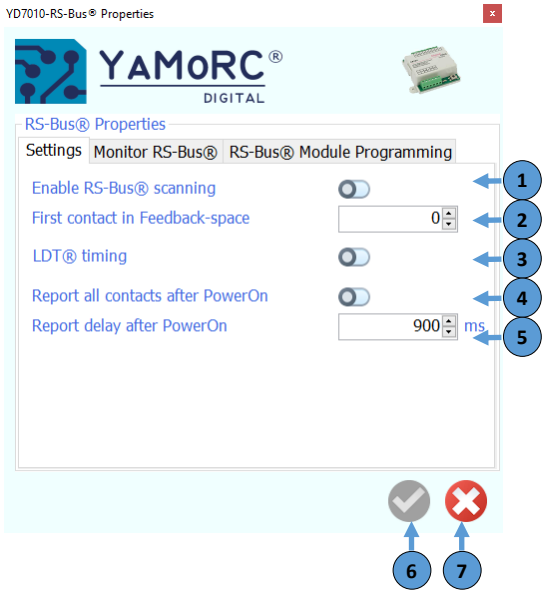
2) **Booster detected**
A booster connected via the BBus® was recognised.

3) **Booster short circuit**
A booster connected via the BBus® has signalled a short circuit.

4) **Save** settings
The changed settings are only applied permanently once the green tick has been activated.

5) Close **menu**

RB-Bus® Settings



1) **Enable RS-Bus® scanning**
This switch is used to switch the RS-Bus® on or off.

2) **First contact in the feedback area**
This specifies which contact is the first contact of the RS-Bus® area.
Attention! *This address must be unique and must not be* assigned *in any other feedback area (s88, LocoNet®).*

3) **LDT timing**

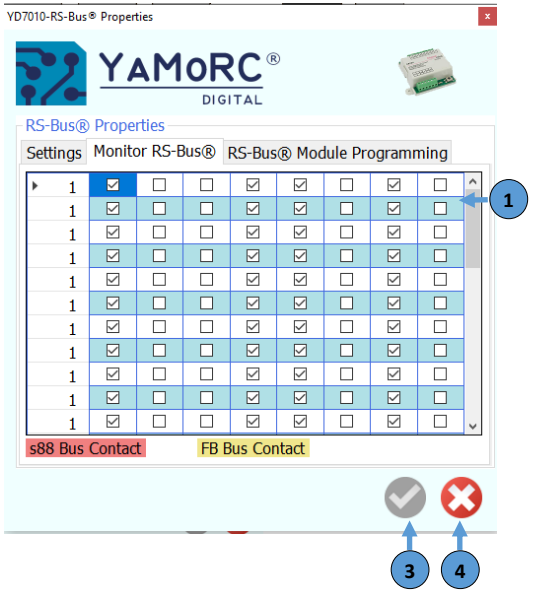
4) **Report all contacts after Power on**
The feedback contacts are scanned after switching on the voltage.

5) **Report delay after Power on**
After this time in mS, the contacts are queried

6) **Save** settings
The changed settings are only applied permanently once the green tick has been activated.

7) Close **menu**

RB-Bus® watch



1) **RS-Bus® Monitor** (feedback monitor of the connected RS-Bus® modules)
The RS-Bus® Monitor displays the status of the individual RBus® sensors. If a sensor is recognised as occupied, this is indicated by a ***red*** *square.*

2) **Save** settings
The changed settings are only applied permanently once the green tick has been activated.

3) Close **menu**

RB-Bus® Modu programming



1) **Modu type**
This selection field is used to select the desired module to be configured.

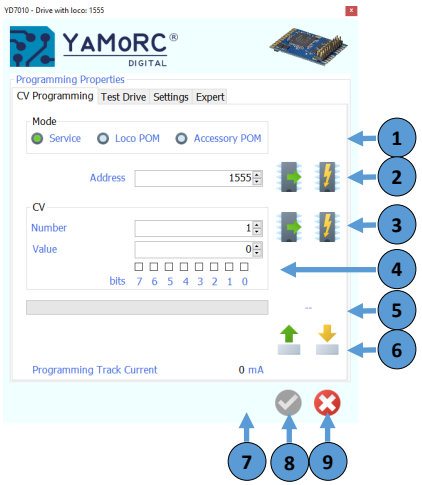
2) **Modula dress**
The first module address that the module is to receive is assigned here.

3) **Next**
This button starts the wizard for parameterising the module after the first address has been entered.

4) **Save** settings
The changed settings are only applied permanently once the green tick has been activated.

5) Close **menu**

Prog.Track CV Programming



1) **Mode**
The programming mode used by the YD7010 can be selected here.
Service *Programming via a programming track on the Prog Track connection*
Loco POM *Programming on the main track POM (Programme On Main)*
Accessory POM *Programming via the main track of accessory decoders (only decoders that support this)*

2) **Read / write current address (programming track)**
The YD7010 reads out the current locomotive address of the DCC decoder on the programming track.

3) **Read/write CV (Configuration Variable)**
Number *Numerical input of the CV to be read or written.*
Value *Numerical input of the value with which the selected CV is to be described.*

4) **Bits**
By selecting the desired bits, the bit pattern can be selected as an alternative to direct CV value input.

5) **Status** of the readout or programming process
OK *Readout and write process OK.*
Fail *Read/write operation failed.*
TimeOut *No decoder recognised.*
No Reed *No read result*

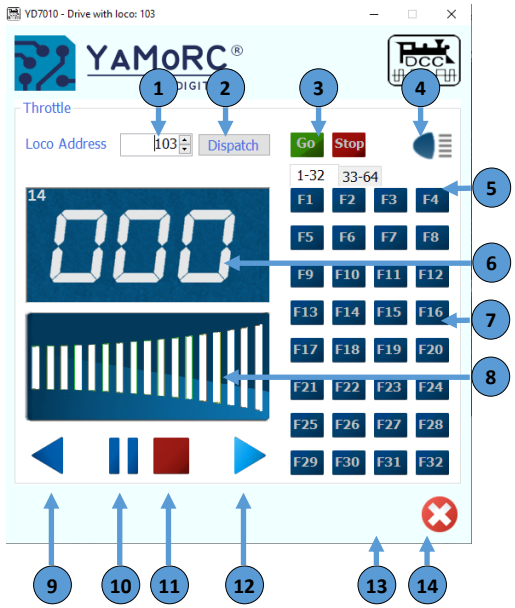
6) Read out **the complete decoder** and **save** the values in a **CSV file.**
To do this, a CSV file with the desired values must first be created.

7) **Programming track current**
Display of the measured load on the programming track during readout or programming.
(If no current is displayed during programming, there is no locomotive on the programming track).

8) **Save** settings
The changed settings are only applied permanently once the green tick has been activated.

9) Close **menu**

Prog.Track Throttle



1) Enter the **locomotive address**
The desired locomotive address to be controlled with the current speed controller is selected here.

2) **Dispatch**
Transfer of the locomotive address to a handheld controller which does not have a direct selection of the locomotive address (e.g. Uhlenbrock® FRED®, etc.).

3) **Go/Stop**
*Pressing the **Go**button activates the track output of the YD7010. Pressing the **Stop** button switches off the track output of the YD7010.*

4) **Activate F0 (light)** of the selected locomotive

5) **Selection of functions 1-32 or 33-64**
Click on one of the two tabs to select which functions are to be switched.

6) **Display** of the speed levels, the selected direction of travel and the RailCom® information.
The RailCom® information (block address in which the locomotive is located, QsS messages, etc.) is only displayed if a RailCom® feedback module, e.g. YD6016LN-RC, is used.

7) Switch functions **F X - F X on or off**

8) **Speed preselection**
The selected locomotive can be controlled by clicking in this field.
*Alternatively, control is also possible via keyboard commands.

9) Reverse **direction preselection**

10) **Stop with braking delay** (stop the locomotive with braking delay)

11) **Emergency stop** (immediate stop of the locomotive without braking deceleration)

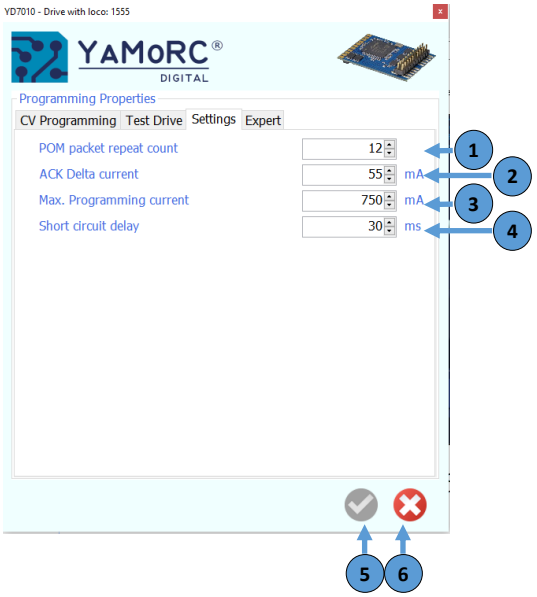
12) Forward **direction preselection**

13) **Close drive controller**

***Alternative control of the locomotive via keyboard commands:**

Arrow up ↑	accelerate
Down arrow ↓	slow down
Arrow left ←	Reverse direction of travel
Arrow right →	Forward direction of travel
F1 - F12	Activate locomotive functions F1 - F12.
Space bar	Emergency stop
0 on the Numeric keypad	stop with braking delay

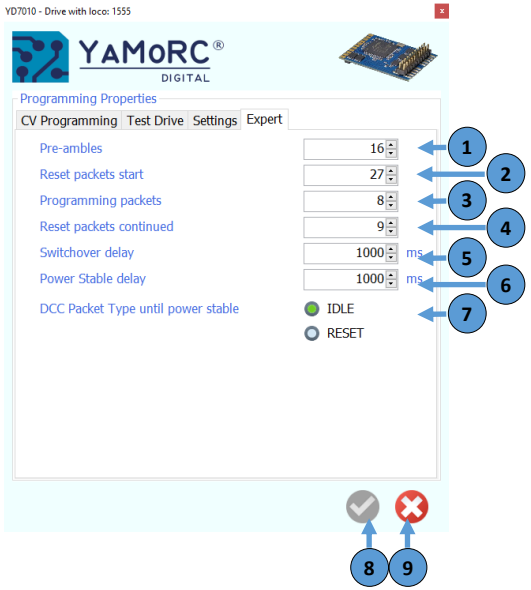
Prog.Track Settings



1) **POM packet repeat count**
   Number of repetitions of the DCC packets during POM programming.
2) **ACK Delta current**
3) **Maximum programming track current**
   The maximum programming track current can be defined in this input field. The programming track can supply a maximum of 750mA.
4) **Short circuit delay**
   The time specified here delays the switch-off of the programming track output in mS after a short circuit has been detected.
5) **Save** settings
   The changed settings are only applied permanently once the green tick has been activated.
6) Close **menu**

Note: If you encounter problems when reading out decoders, please contact our support team. If settings are changed here, this can lead to programming no longer working correctly.

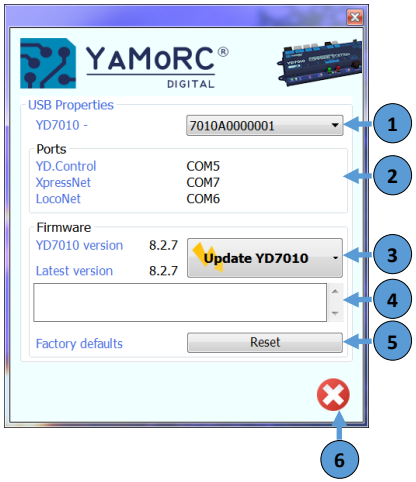
Prog.Track Expert



1) **Pre-ambles** *(Normally no setting is necessary here.)*
2) **Reset packets start** *(Normally no setting is necessary here.)*
3) **Programming packets** *(Normally no setting is necessary here.)*
4) **Reset packets continued** *(Normally no setting is necessary here.)*
5) **Switchover delay**
   Delay time Switching main track to programming track.
6) **Power Stable delay**
   This waiting time is used to stabilise the programming track voltage. The programming process is only started after this time.
7) **DCC packet type until voltage is stable***(Normally no setting is necessary here.)*
8) **Save** settings
   The changed settings are only applied permanently once the green tick has been activated.
9) Close **menu**

Note: If you encounter problems when reading out decoders, please contact our support team. If settings are changed here, this can lead to programming no longer working correctly.

USB 2.0 Properties **Firmware Update**



1) **Serial number** of the connected YD7010
If several YD7010s are connected to the PC, the desired YD7010 that is to receive an update can be selected here.

2) **Ports**
The YD7010 provides three virtual COM ports for the individual protocols.
YD.Control *COM 5* Interface for the internal protocol for communication with the YD7010 software*
XPressNet® *COM 7* XPressNet® protocol*
LocoNet® *COM 6* LocoNet® protocol*
**The COM ports assigned by the PC differ from those shown here in the example image.*

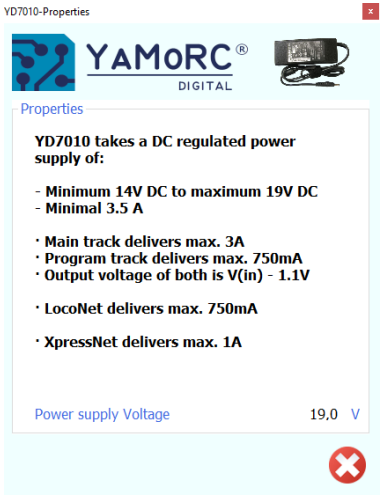
3) **Update YD7010.**
*This button '**Update YD7010**' starts the update process of the* **YD7010** *.*
Once the update process has been started, follow the instructions in the dialogue until it is completed.
The two information displays show the firmware installed on the YD7010 (e.g. YD7010 version 8.2.7) and the firmware version contained in the current software version of the tool (e.g. latest version 8.2.7).
In this example, the available firmware version is identical to that installed on the YD7010.
No update is required.
Important! *An* ***active USB connection*** *to the PCis required to carry out the firmware update!*

4) **Update process display field**
If the update process is running, information on the progress of the update is displayed here.

5) **Reset factory settings.**
This button resets the YD7010 to the factory settings. Attention! All individual configurations will be lost!

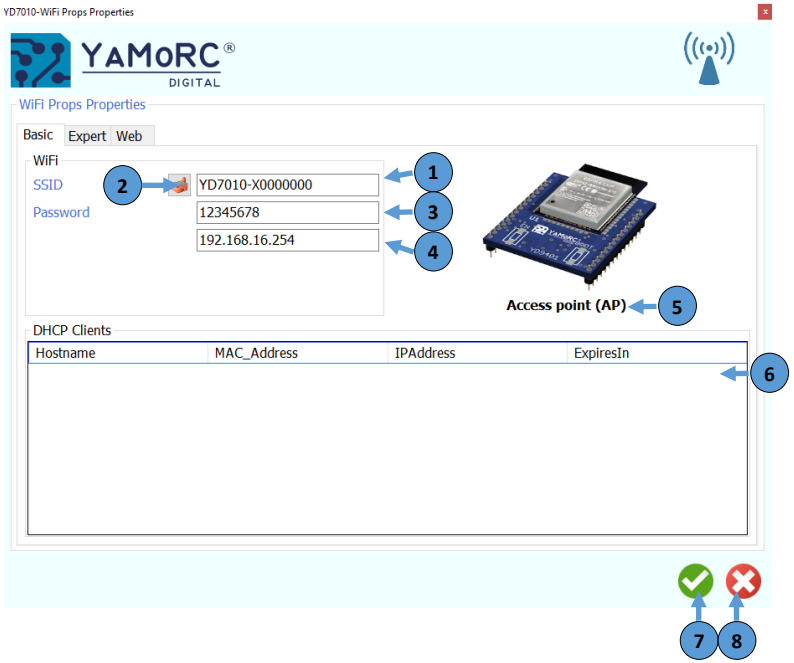
6) Close **menu**

PowerSupply



This menu provides information on the requirements that the YD7010 places on the power supply unit and provides an overview of the technical performance data of the YD7010. The current power supply voltage is also displayed.

WiFi Basic-Properties



1) **SSID YD7010**
An individual SSID can be assigned here.

2) **Reset SSID to factory settings**
The SSID of the YD7010 is reset to the factory setting. The SSID is formed from the name YD7010 and the serial number.

3) **Password**
The WLAN password is assigned here. By default, the password is 12345678.

4) **IP address of the WLAN of the YD7010**

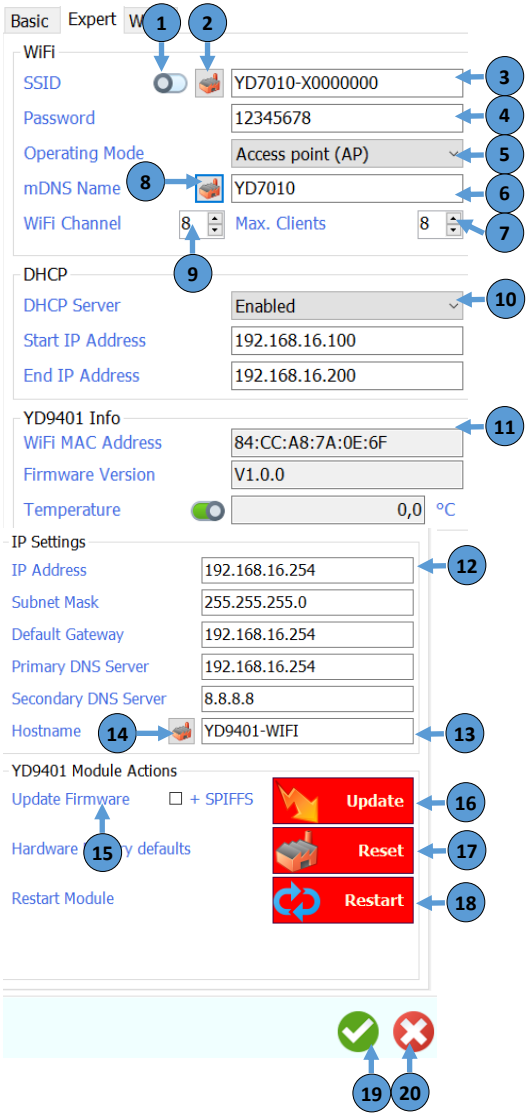
5) **Information** on how the YD7010 is currently working.

6) **DHCP Clients**
Display of the clients connected via WLAN (hand controller, app, etc.) that are connected to the YD7010.

7) **Save** settings
The changed settings are only applied permanently once the green tick has been activated.

8) Close **menu**

WiFi Expert-Properties



1) **Hide SSID**
If this switch is active, the SSID is not constantly sent by the YD9401.
If this switch is switched off, the YD9401 can no longer be read by 'foreign' WLAN clients. The 'foreign' WLAN client must know the SSID of the YD9401 in order to connect.

2) **Reset SSID to factory settings**
The SSID of the YD9401 is reset to the factory setting. The SSID is taken *from the serial number.*

3) **SSID of the YD7010**
An individual SSID can be assigned here.

4) **Password**
The WLAN password is assigned here. By default, the password is 12345678.

5) **Operating mode**
Selection of the operating mode of the WLAN module.

6) **mDNS-Name**
mDNS is a service that enables the control centre to be found automatically and its IP address to be read out. This makes configuring control programmes much easier.

7) **Max Clients**
The maximum number of WiFi clients that can be connected to the YD7010 at the same time can be set here. Currently, the maximum number of 10 clients (app, wireless hand controller, etc.) is possible here.

8) **mDNS-Name from the product number**

9) **WiFi Channel**
The WiFi channel on which the WLAN module of the YD7010 transmits can be defined here.

10) **Activate or deactivate DHCP**
This setting can be used to specify whether DHCP (automatic IP address assignment) is active via WLAN or not. The following two input fields define the first IP address in the DHCP range and the last IP address in the DHCP range.

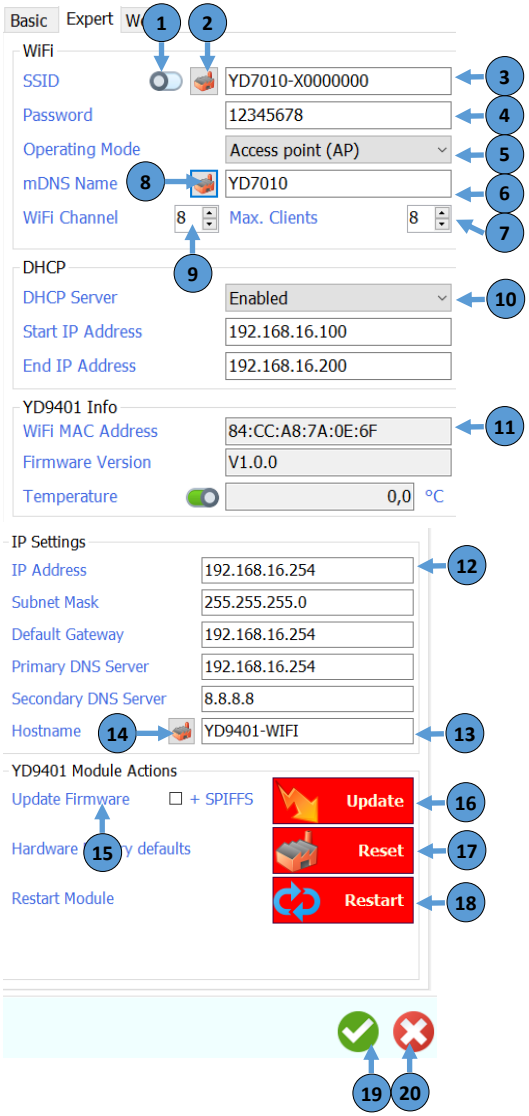
11) **YD9401 Infos**
Information display of the Mac address, the firmware version and the temperature of the YD9401.

12) **IP-Adresse**
The IP address of the YD7010 WLAN server can be assigned here. The subnet mask, default gateway, primary and secondary DNS server can also be assigned.

13) **Hostname YD7010**

14) Reset host name to **factory setting**

WiFi Expert-Properties



15) **+ SPIFFS** (*Normally it is not necessary to tick this box.)*
If this box is ticked, the flash file system is transferred to the YD9401 during the firmware update. Should it nevertheless be necessary to activate this tick during a future update, you will be informed during the update that the tick must be set.
If this function is ticked, a factory reset is carried out (see below).

16) **Update**
This button starts the firmware update of the YD9401 (WLAN module of the YD7010).
***Important!** An **active USB connection** to the PCs required to carry out the firmware update!*

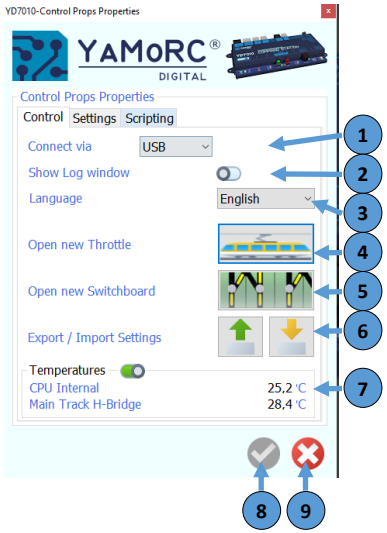
17) **Reset**
This button resets the YD9401 to the factory settings. All individual settings will be lost. All individual designations such as host names, SSID, etc. should also be reset to the factory settings *using the* corresponding symbol.

18) **Restart**
This button is used to restart the WLAN module.

19) **Save** settings
The changed settings are only applied permanently once the green tick has been activated.

20) Close **menu**

Track Go/Stop Control Properties



1) **Connection via (USB, network)**
Here you can select how the YD7010 is connected to the PC. You have the option of connecting the YD7010 via USB (COM port 181 in this example) or via a home network. If Network is selected, the correct IP network address must be selected in the following input button

2) **Show log window**
All commands sent from and to the YD7010 are logged in the log window and saved*if necessary* . The log window is a useful function for troubleshooting.

3) **Language**
Selection of the menu language. You can choose between German, English and Dutch.

4) **Open new speed controller**
Clicking on this button calls up a speed controller for controlling locomotives.

5) **Open new control panel**
Clicking on this button opens a new control panel for controlling accessory addresses (points, signals, etc.).

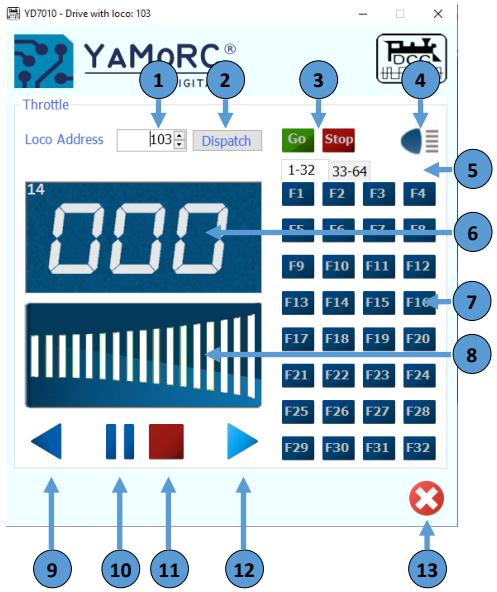
6) **Export / Import settings**
*The **Export button** can be used to export the current configuration of the YD7010 and* save *it to any* location.
*A previously saved configuration of the YD7010 can be re-imported using the **Import button.***
***Attention!** The current configuration of the YD7010 will be overwritten.*

7) **Temperature switch**
This switch activates the temperature display of the CPU and the H-bridge (track output main track)

8) **Save** settings
The changed settings are only applied permanently once the green tick has been activated.

9) Close **menu**

Throttle



1) Enter the **locomotive address**
The desired locomotive address to be controlled with the current speed controller is selected here.

2) **Dispatch**
Transfer of the locomotive address to a handheld controller which does not have a direct selection of the locomotive address (e.g. Uhlenbrock® FRED®, etc.).

3) **Go/Stop**
*Pressing the **Go**button activates the track output of the YD7010. Pressing the **Stop** button switches off the track output of the YD7010.*

4) **Activate F0 (light)** of the selected locomotive

5) **Selection of functions 1-32 or 33-64**
Click on one of the two tabs to select which functions are to be switched.

6) **Display** of the speed levels, the selected direction of travel and the RailCom® information.
The RailCom® information (block address in which the locomotive is located, QsS messages, etc.) is only displayed if a RailCom® feedback module, e.g. YD6016LN-RC, is used.

7) Switch functions **F X - F X on or off**

8) **Speed preselection**
The selected locomotive can be controlled by clicking in this field.
*Alternatively, control is also possible via keyboard commands.

9) Reverse **direction preselection**

10) **Stop with braking delay** (stop the locomotive with braking delay)

11) **Emergency stop** (immediate stop of the locomotive without braking deceleration)

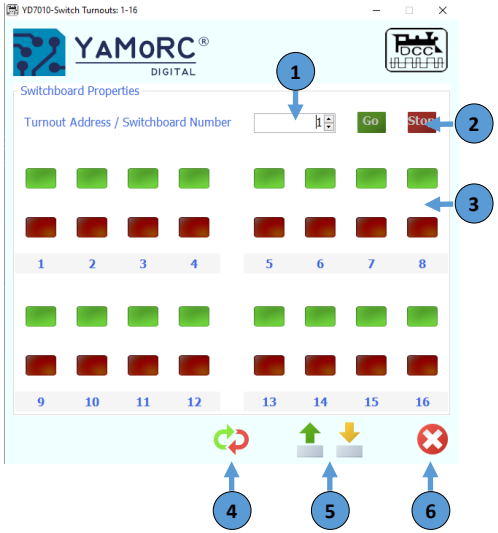
12) Forward **direction preselection**

13) **Close drive controller**

***Alternative control of the locomotive via keyboard commands:**

Arrow up ↑	accelerate
Down arrow ↓	slow down
Arrow left ←	Reverse direction of travel
Arrow right →	Forward direction of travel
F1 - F12	Activate locomotive functions F1 - F12.
Space bar	Emergency stop
0 on the Numeric keypad	stop with braking delay

Switchboard



1) Enter the **switch address/control panel number**
The desired accessory address is selected here, which is displayed as the first address in the control panel.

2) **Go/Stop**
*Pressing the **Go**button activates the track output of the YD7010. Pressing the **Stop** button switches off the track output of the YD7010.*

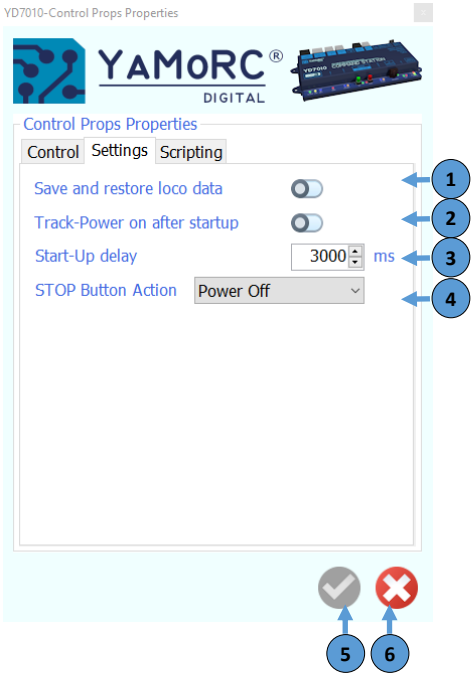
3) **Button** for switching the individual addresses
It is possible to assign a configuration analogue to the YD8008, YD8044 and YD8116 configuration to each button (click right mouse button).

4) **Reset control panel settings**
Pressing this button resets the settings of the control panel.

5) **Export/import** of the control panel configuration
These two buttons can be used to save the current configuration of the control panel (export) and transfer*it to another* control panel, for example (import).

6) **Close the control panel**

Track Go/Stop Control Properties



1) **Saving and loading locomotive data**
If this switch is activated, the current locomotive data (Loconet® slots) are saved when the stop button is pressed and reloaded after the YD7010 is restarted.

2) **Track voltage on after restart**
This switch determines whether the track voltage is automatically activated after the control centre is restarted.

3) **Start up delay**
This time determines when various actions are started internally and when the track voltage is switched on.

4) **Stop button Action**
This selection field defines which action the YD7010 stop button triggers when pressed.

Possible actions that can be selected:

Power off	*If the stop button is pressed, the YD7010 switches **off** the **track voltage immediately**.*
Emergency stop	*If the stop button is pressed, the control centre sends an **emergency stop command** and all **locomotives stop**. The **track voltage remains active**.*
Emergency stop voltage Off	***Two functions** are assigned to the stop button. **The first time** the button is pressed, an **emergency stop** is triggered and ALL locomotives stop.* The track voltage remains active! *The track voltage **is switched off*** when the ***second** button is pressed .*

5) **Save** settings
The changed settings are only applied permanently once the green tick has been activated.

6) Close **menu**

IR Properties



1) **Infrared on/off**
This switch is used to switch the infrared receiver on or off.

2) **Locomotive channels (control channels of the remote controls)**
By entering the desired locomotive address, the desired locomotive address is assigned to the respective channel.

3) **Locomotive remote control types**
This selection field is used to specify the remote control type that is assigned to the respective channel. Possible selection Uhlenbrock®/Piko® or Märklin/Minitrix.

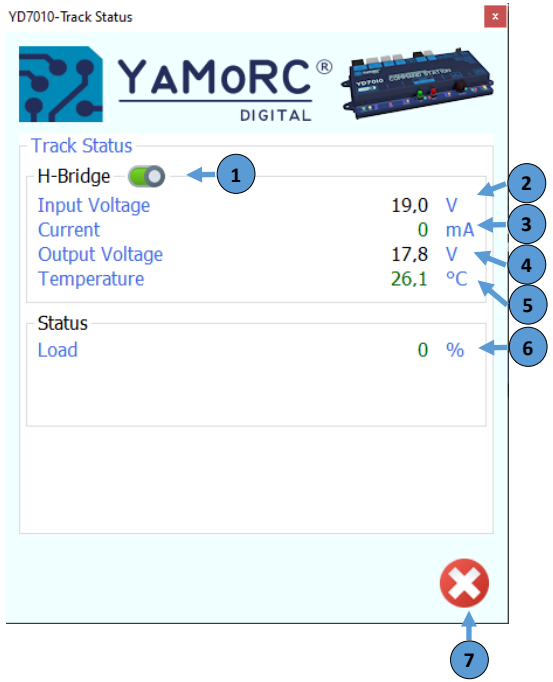
4) **Switch channels (control channels of the remote controls)**
By entering the desired accessory address (switch address), the desired accessory address (switch address)*is* assigned*to the respective channel* .

5) **Remote control switch types**
This selection field is used to specify the remote control type that is assigned to the respective channel. Possible selection Uhlenbrock®/Piko® or Märklin®/Minitrix®.

6) **Save** settings
The changed settings are only applied permanently once the green tick has been activated.

7) Close **menu**

Track Status



1) **H-Bridge**
This switch activates the status information readout function.

2) **Supply voltage**
Voltage display of the voltage with which the YD7010 is supplied by the power supply unit.

3) **Current**
Display for the output current at the track out (main track) that is currently required.

4) **Output voltage**
Display of the *supply voltage applied to the Track Out (main track).*

5) **Temperature**
Temperature display of the H-bridge Track Out (main track).

6) **Load**
Track Out load display in per cent.

7) Close **menu**

Warranty

24 months warranty from date of purchase

Dear Customer,

Congratulations on your purchase from YaMoRC. YaMoRC's high quality products have been manufactured using modern manufacturing processes and have been subjected to careful quality control and tests.

Therefore, when purchasing a YaMoRC product, the company YaMoRC grants you a manufacturer's warranty of 24 months from the date of purchase in addition to the national warranty rights to which you may be legally entitled to, from your YaMoRC specialist dealer as contractual partner.

Warranty conditions:

This warranty applies to all YaMoRC products purchased from a YaMoRC dealer. Warranty services are only provided if proof of purchase is presented. Proof of purchase is the purchase receipt from the YaMoRC specialist dealer. It is therefore recommended to keep your purchase receipt safe.

Content of the guarantee/exclusions:

The warranty includes, at YaMoRC's discretion, the free repair or free replacement of the defective part, which can be proven to be due to design, manufacturing, material or transport faults. For this purpose, you must send the decoder to us properly stamped. Further claims are excluded.

The warranty claims are void:

1. in the case of general wear and tear at expected locations (e.g. screw terminals).
2. in the case of modification of YaMoRC products with parts not approved by the manufacturer.
3. in the case of modification of parts, especially by opening the housing.
4. if the product is used for purposes other than those intended by the manufacturer.
5. if the instructions given by YaMoRC in the operating manual have not been thoroughly read by the user & risked mis-use of the product.

The warranty period is not extended by the repair or replacement delivery. Warranty claims can only be made to your dealer, enclosing any warranty certificate, proof of purchase and a description of the fault. Products sent directly to YaMoRC will neither be treated nor returned free of charge.

Drenth Design & Consulting B.V.
Glazeniershorst 209
NL-7328 TJ APELDOORN
Liability: Drenth Design & Consulting B.V.
Phone: +31643392605
E-Mail: ddc@yamorc.com
Directors: Karst Drenth
Trade register: 72184728
VAT No/Tax ID: NL-859019901B01