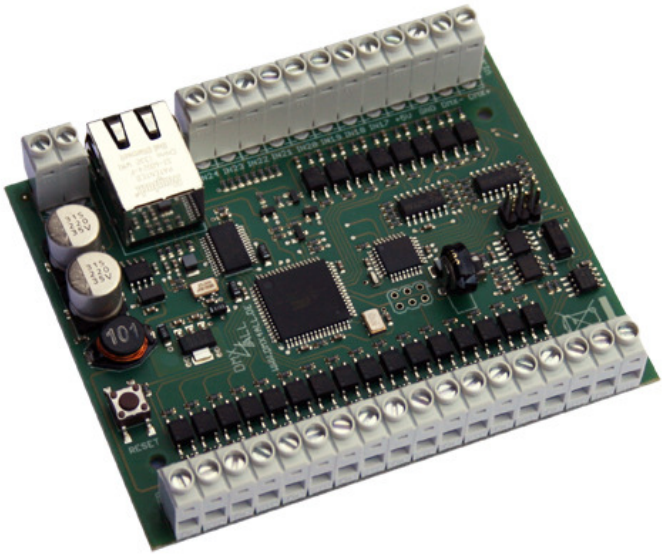
ArtNet-DMX Mux24

User Manual



Description

The **ArtNet-DMX Mux24** has 16 digital inputs and 8 additional inputs which are adaptable analog or digital. The output occurs via ArtNet and DMX.

For each input the function (Mode) as well as the channels to control are adjustable.

A user-friendly configuration via a web browser allows a fast an uncomplicated setting for all parameters.

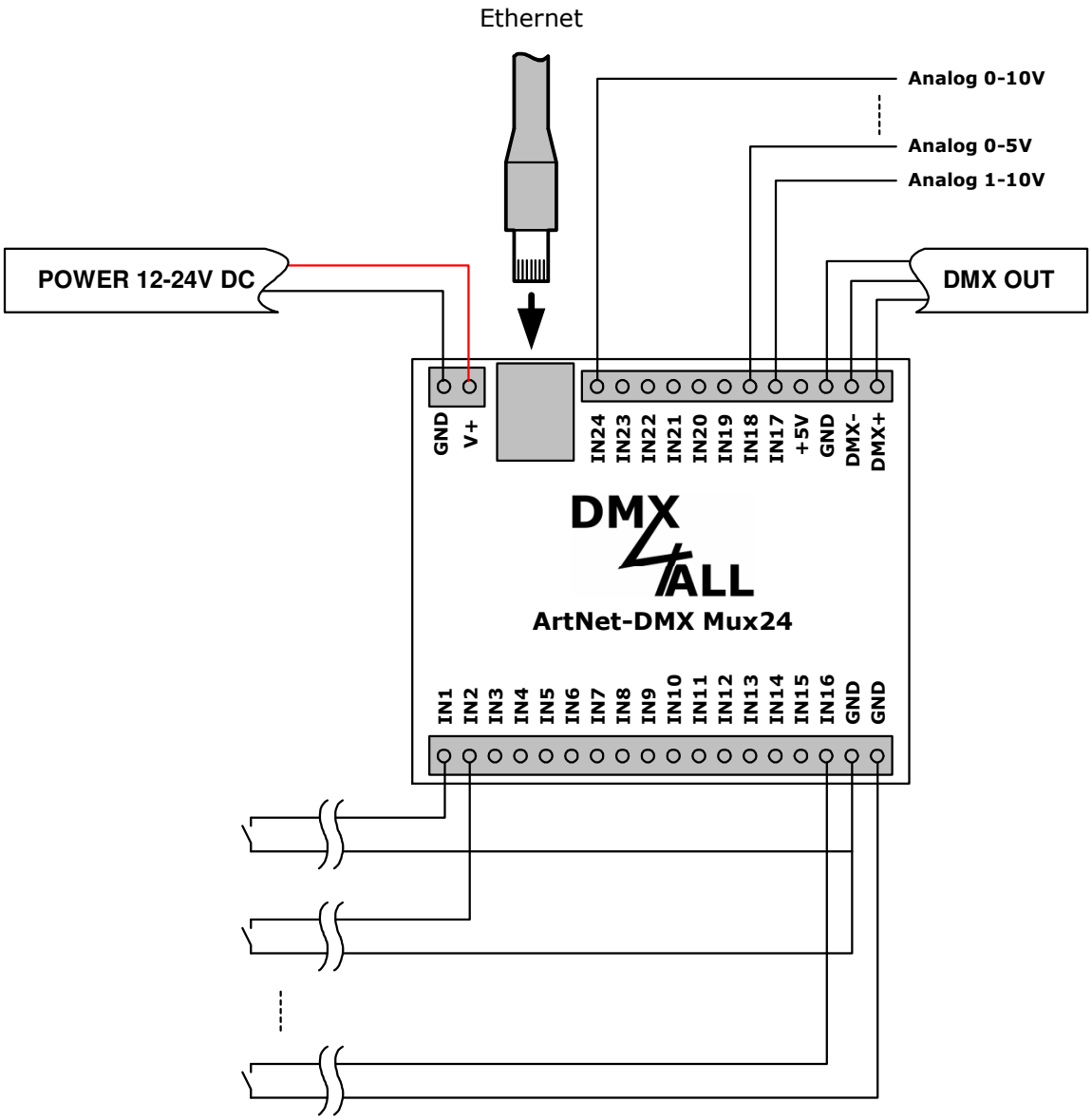
Data sheet

Power supply:	7-24V DC / 0,5A	
Ethernet:	1x	RJ45
DMX-OUT:	1x	512 DMX-channels
Inputs:	16x	Long Distance Digital Input
	8x	Analog Input or Long Distance Digital Input
Modes:	Switch Button ON Button OFF Button ON/OFF Dimmer UP Dimmer DOWN Dimmer UP/ DOWN Button ON + Dimmer UP Button OFF + Dimmer DOWN Button ON/ OFF + Dimmer UP/ DOWN Analog 0-10V Analog 0-5V Analog 1-10V	
Timer:	4x	adjustable Timer
Dimensions (LxBxH):	99 x 82 x 20mm	

Delivery

1x ArtNet-DMX Mux24
1x RJ45 net-work cable 1:1
1x User Manual (german)

Connection


Ethernet
Analog 0-10V
Analog 0-5V
Analog 1-10V
POWER 12-24V DC
DMX OUT
GND
V+
IN24
IN23
IN22
IN21
IN20
IN19
IN18
IN17
+5V
GND
DMX-
DMX+
ArtNet-DMX Mux24
IN1
IN2
IN3
IN4
IN5
IN6
IN7
IN8
IN9
IN10
IN11
IN12
IN13
IN14
IN15
IN16
GND
GND

LED-Display

LED green

The green LED flashes, if there is no Ethernet connection available and lights permanent, if an Ethernet connection is available.

LED yellow

The yellow LED lights up as soon as data are received.

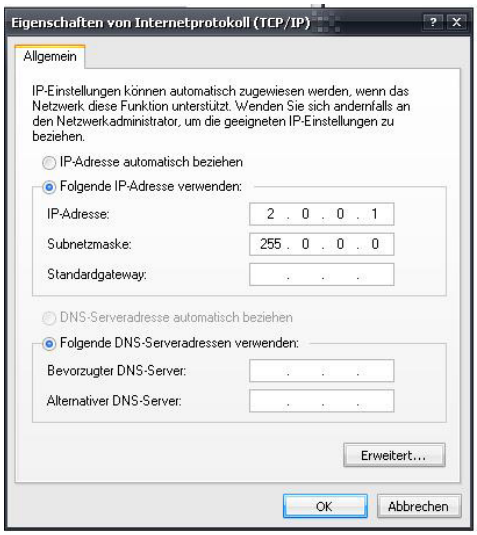
Configuration

The **ArtNet-DMX Mux24** configuration occurs via a web-interface which can be called up via any web browser.

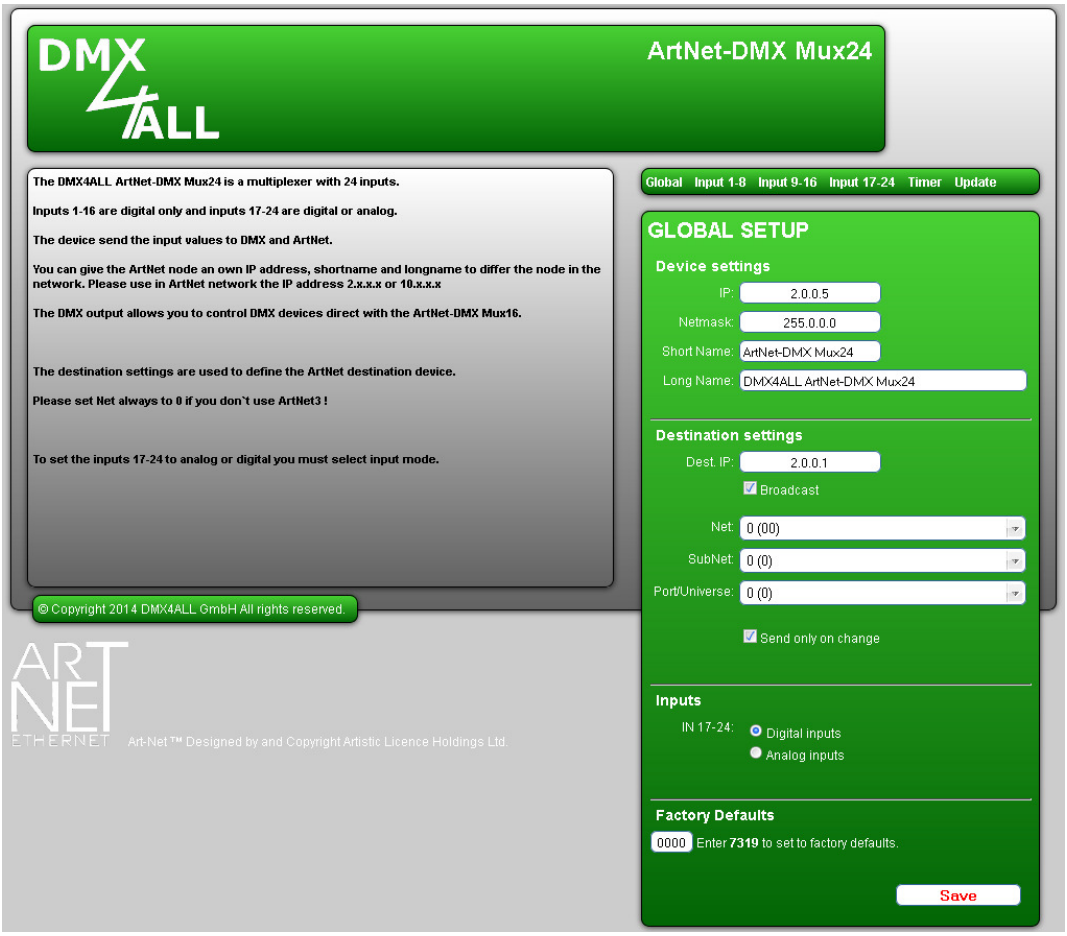
The assigned **IP-Address** within the delivery status is **2.0.0.5** which will be used for the web-interface as well as for the ArtNet.

⚠ The PCs network settings must be the **IP-Address 2.0.0.1** and the **subnet mask** must be **255.0.0.0**.

Please take further details from the ArtNet-specifications.



Please call up the IP 2.0.0.5 inside your web-browser and inside the address task to get the following configuration side:



GLOBAL SETUP

Device settings

Each device needs an own **IP-Address** that the assignment occurs clearly within the network. Please use in accordance to the ArtNet-specification the IP-Address 2.x.x.x or 10.x.x.x with the **net-mask** 255.0.0.0 .

Any other IP-Address can be used too, like e.g. 192.168.1.10 .
In this case the net mask must be adjusted to 255.255.255.0 !

For a better distinction you can name the ArtNet-DMX Mux24 anyway.

The **short-name** is limited to 18 signs and the **long-name** to 64 signs.

Destination settings

The Destination settings specifiy the values for the ArtNet-output.

Under **Dest. IP** the IP-Address will be entered to which the data should be send via ArtNet (Unicast).

Broadcast activates the ArtNet-data output to all ArtNet-devices. The Dest. IP will not be considered in this case.

Net / **SubNet** / **Port/Universe** are the according ArtNet parameters.

Send only on change suppressed the regular repeated output of the values via ArtNet.

Factory defaults

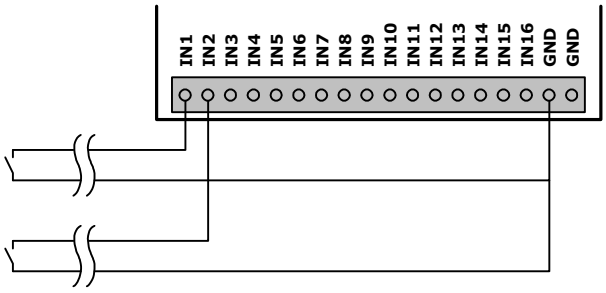
The **Factory Settings** will be restored with entering the number 7319.

SAVE stores the configuration respectively restored the Factory Settings.

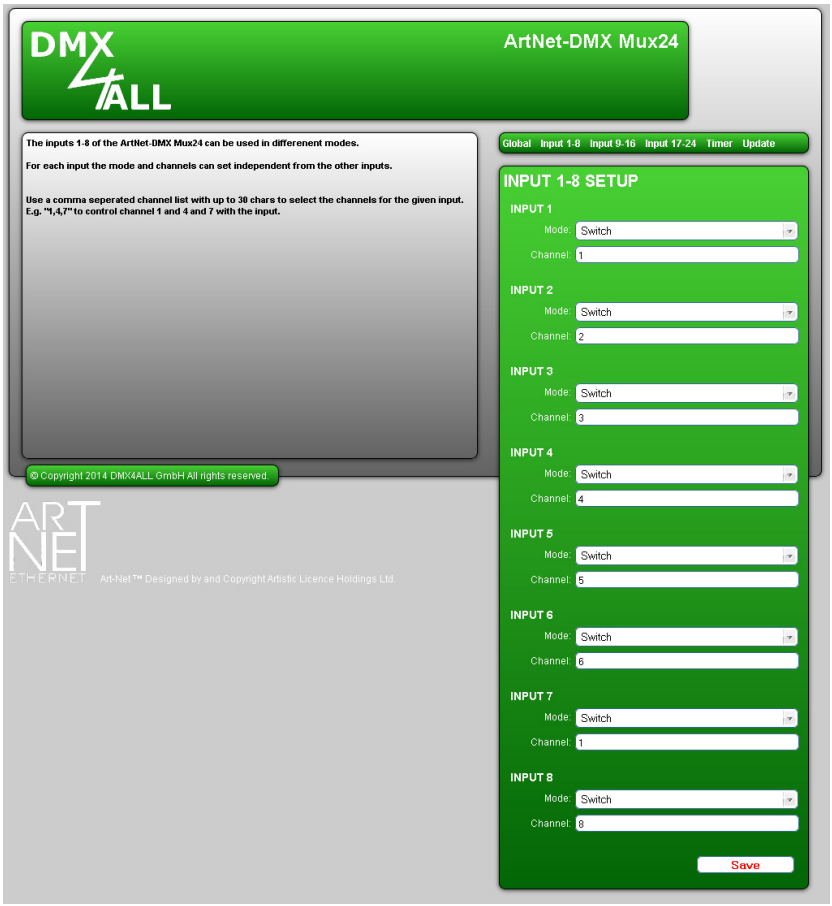
Digital inputs (IN1-IN16)

The digital inputs are realized as LONG DISTANCE inputs which allow using longer supply pipes to the switching element.

The input wiring occurs with a switch or a button, connect to GND as shown in the following outline:



The inputs are configured via the web interface. Therefore the both configuration sides ***Input 1-8*** and ***Input 9-6*** are available.



Per *Input* the *Mode* and *Channels* which should be controlled can be entered here.

You can choose between the following modes:

- **Switch**
  Active: Channels 100%
  Inactive: Channels 0%

- **Button ON**
  Channels will be turned on - 100%

- **Button OFF**
  Channels will be turned off - 0%

- **Button ON/OFF**
  Channels will be switched between on and off 0% / 100%

- **Dimmer UP**
  Channels will be dimmed upwards - 0% ➔ 100%

- **Dimmer DOWN**
  Channels will be dimmed downwards - 100% ➔ 0%

- **Dimmer UP/DOWN**
  Channels will be dimmed upwards/downwards,
  change of direction after each loose

- **Button ON + Dimmer UP**
  Short active: Channels will be turned on
  Long active: Channels will be dimmed upwards

- **Button OFF + Dimmer DOWN**
  Short active: Channels will be turned off
  Long active: Channels will be dimmed downwards

- **Button ON/OFF + Dimmer UP/DOWN**
  Short active: Channels will be turned on/ -off
  Long active: Channels will be dimmed upwards/ -downwards,
  change of direction after each loose

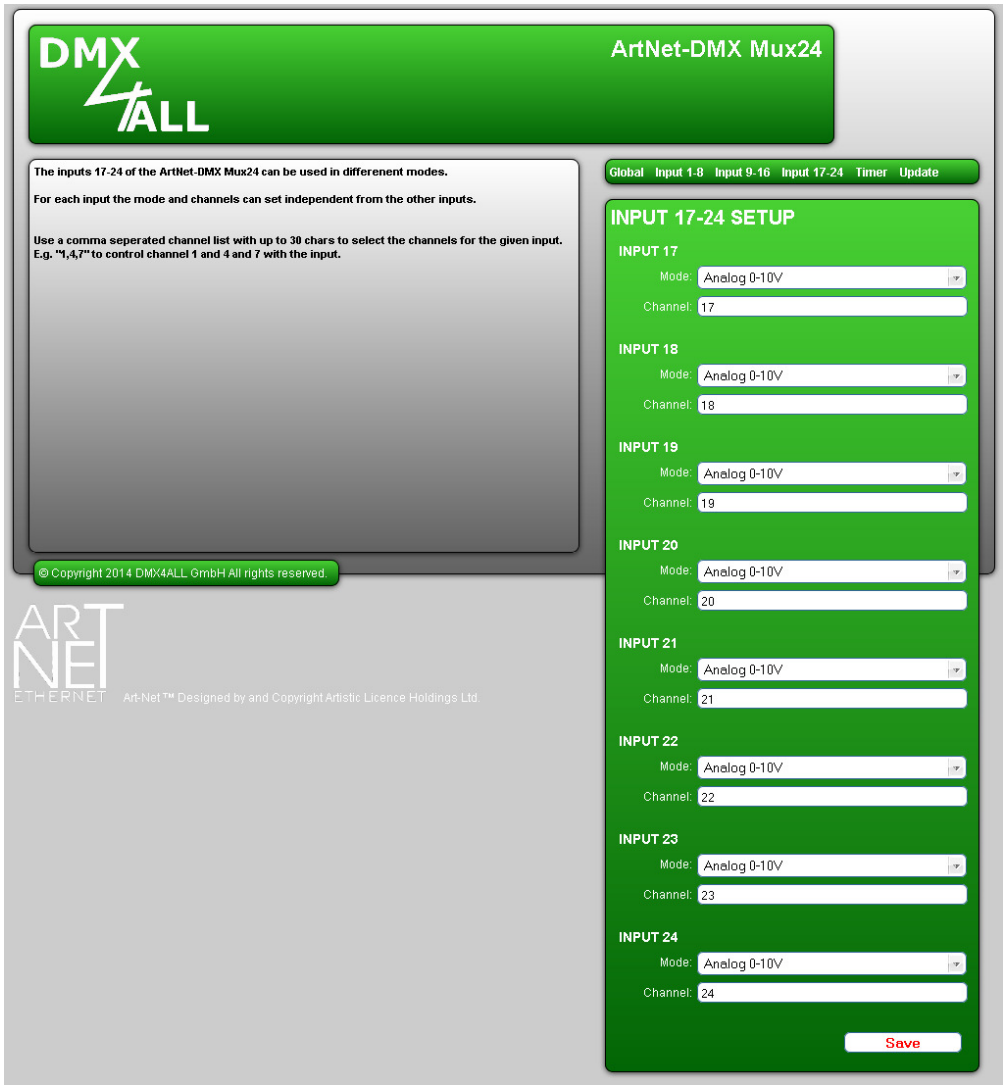
The channel entry occurs as decimal value from 1 up to 512. If several channels should be controlled via one input, the single values must be entered separately with a comma.

For example an single channel with „1“ or several channels with „1,4,7“.

Analog / Digital Inputs (IN17-IN24)

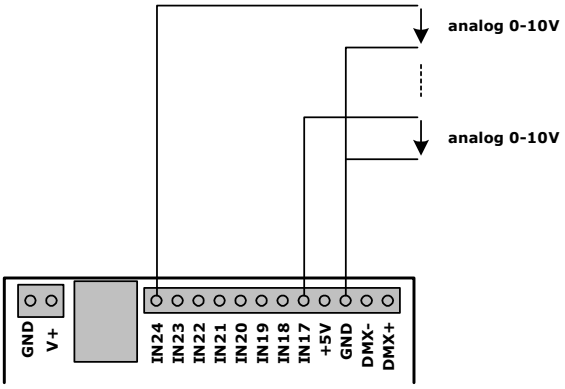
The analog/digital inputs are adaptable for using as LONG DISTANCE digital inputs or analog inputs.

The inputs will be configured via the web-interface.
The selection, if the inputs should be used analog or digital, occurs in the Global SETUP. On the configuration-site ***Input 17-24*** the function of the single channels will be determined.

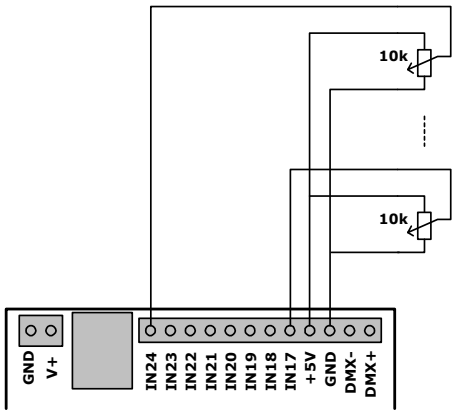


The wiring can occur in several ways.

Connection with external analog signal (0-10V / 0-5V / 1-10V)

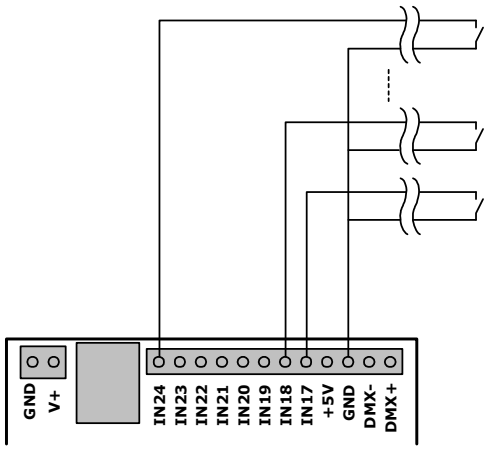


Connection with potentiometer



Connection as digital input

The wiring as LONG DISTANCE digital input occurs with a switch or button, connect to GND as shown in the following outline:

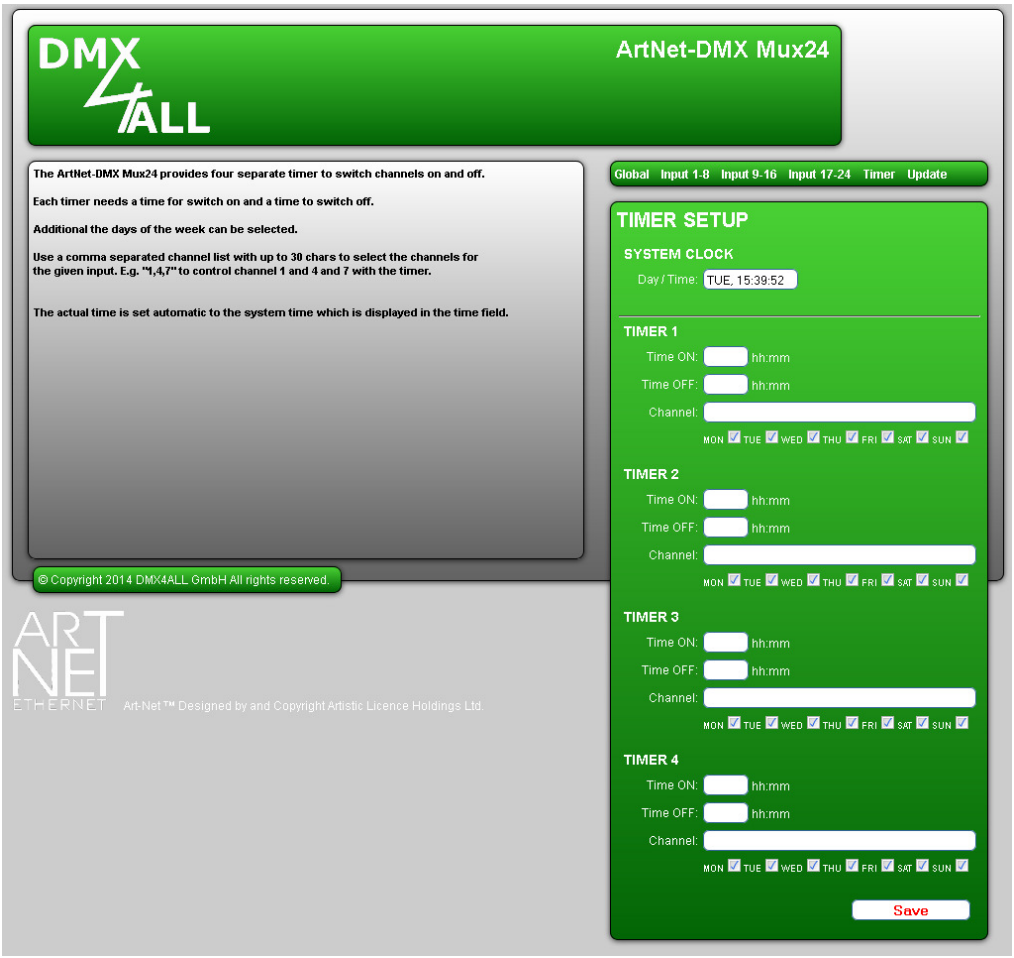


Timer

The **ArtNet-DMX Mux24** serves 4 timer. Each of these have a time for switch-on and a time for switch-off as well as a selection for the weekdays on which the timer should be active.

The channel on which the timer should work will be specified as decimal value from 1 up to 512. If several channels should be controlled via the timer, so the single values must be entered separately with a comma.

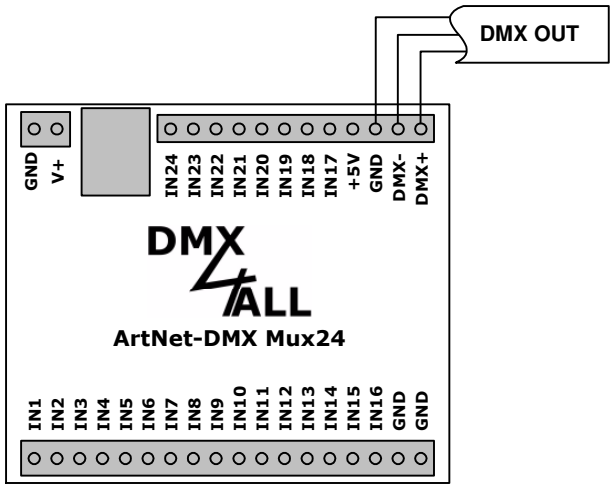
For example a single channel with „100“ or several channels with „100,110,120“.



With ***Save*** the settings will be stored and the current time will be adopted in the ArtNet-DMX Mux24, from the device on which the website was called.

DMX-Output

The **ArtNet-DMX Mux24** has a DMX-output DMX-output which can be used to connect DMX-able devices directly.



At the DMX-output a DMX-signal with 512 DMX-channels will be outputted.
The values of the DMX-channels will be determined via the digital inputs and the configuration.

The configuration must occur via the web interface.

Factory Reset

The **ArtNet-DMX Mux24** can be set into the delivery status via the button.

Please proceed as follows:

- Turn off the device
- Push button and hold
- Turn on the device
- The yellow LED flashes
- Release button
- Push button again and hold
- The green and yellow LED flashes now for ca. 10 seconds alternately
- Release button meanwhile
- Now the Reset is in progress and the LEDs flashes 3x simultaneously as confirmation

Alternatively you can restore the delivery status via the web browser:

- Open Global Settings into web-browser
- Enter the code „7319“ within the input field under Factory Defaults
- Click *Save*
- Then wait 10 seconds minimum

Execute an Update

The **ArtNet-DMX Mux24** has an **Update-function** which allows transferring prospective Firmware-versions.

Please proceed as follows:

- Turn off the device
- Push button and hold
- Turn on the device
- The yellow LED flashes
- Release button
- Generate a net-work connection to the PC
- Start the Update-Software **DMX4ALL LAN-Updater**
- Select the ArtNet-DMX Mux16 from the list
- Click *Firmware-Update*
- Select Firmware-file (.bin) and confirm
- Please wait until the Update has finished

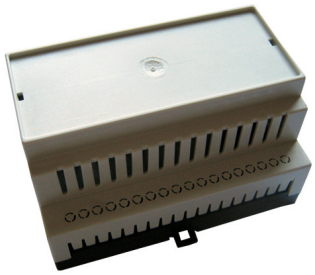
If an error occurs during the Update, you can start from the beginning any time.

Alternatively you can activate the Firmware-Update via the web-browser:

- Open the Update into the web-browser
- Enter the diplayed code „1379“ into the input field and click *Send*.
- Start the Update-Software **DMX4ALL LAN-Updater**
- Select the ArtNet-DMX Mux16 from the list
- Click *Firmware-Update*
- Select Firmware-file (.bin) and confirm
- Please wait until the Update has
- Click in the web-browser to *Back to Mainpage*

Equipment

Top-hat rail housing 1050



Power supply 12V / 20W

CE-conformity

This assembly (board) is controlled by a microprocessor and uses high frequency (8MHz). To get the characteristics of the assembly in relation to the CE-conformity, an installation in a compact metal casing is necessary.

Risk-Notes

You purchased a technical product. Conformable to the best available technology the following risks should not excluded:

Failure risk: The device can drop out partially or completely at any time without warning. To reduce the probability of a failure a redundant system structure is necessary.

Initiation risk: For the installation of the board, the board must be connected and adjusted to foreign components according to the device paperwork. This work can only be done by qualified personnel, which read the full device paperwork and understand it.

Operating risk: The Change or the operation under special conditions of the installed systems/components could as well as hidden defects cause to breakdown within the running time.

Misusage risk: Any nonstandard use could cause incalculable risks and is not allowed.

Warning: It is not allowed to use the device in an operation, where the safety of persons depend on this device

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