



DMX Demultiplexer

Instruction Manual

Models:

DTA 1248

DTA 1664

version 1.0 since 3 February 2020

ATTENTION!

This instruction manual contains important information about the installation and the use of the equipment. Please read and follow these instructions carefully.

Always ensure that the power to the equipment is disconnected before opening the equipment or commencing any maintenance work.

General

IMPORTANT INSTRUCTIONS

All safety and operating instructions should be read before the equipment is installed or operated.

IMPORTANT SAFETY INFORMATION

The following general safety precautions have to be observed during all phases of operation, service, and the repair of this equipment. Failure to comply with these precautions or with specific warnings in this manual violates safety standards of design, manufacture, and the intended use of this equipment.

Do not operate in an explosive atmosphere!

Do not operate this equipment in the presence of flammable gases or fumes. Operation of any electrical instrument in such an environment constitutes a definite safety hazard.

Water, moisture, heat and humidity

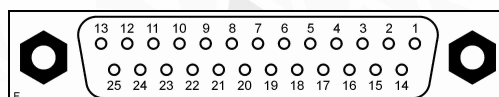
Do not operate this equipment near water or in areas with wet floors or in high humidity atmosphere where condensation forms on the equipment. It should never be placed near or over a heat register or other source of heated air and it should not be installed or operated without proper ventilation.

Power Connections

Use the original adapter only. Let the device adopt the environment for at least 10 minutes after unpacking.

Analogue output connection

Analogue outputs [standard 0/+10V] are provided in a form of SUB-D socket.



DMX input and output connections

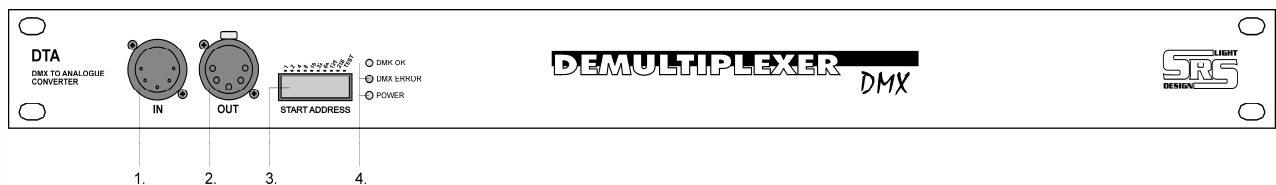
Male and female DMX standard 3- or 5-pin XLR connectors are provided on the front panel for IN and OUT connections. These also facilitate the use of a low impedance terminator if the converter is the last equipment on the DMX line. DMX input is optically isolated.

Description

Practical attributes:

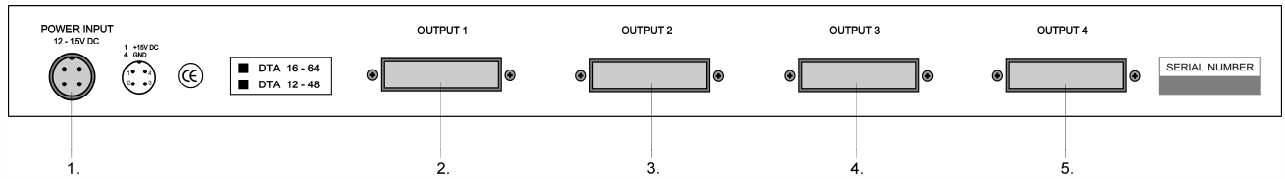
- 64/48-channel Digital to Analog converter
- Optically isolated DMX input with true output
- LED indication of DMX line
- DIP switch for the DMX address setting
- test output channels

Front panel:



1. Switch DMX start address (UP = ON)
 - #1-9 are allocated for DMX start address selection 1-256
 - #10 is TEST mode activation. In this mode, the outputs runs in sequence 1-48/1-64 automatically 0/+10V.
2. LED indication
 - POWER ON ON when device is powered
 - DMX OK ON when correct DMX is received
 - DMX OK BLINKING when test DIP is activated
 - DMX ERR ON when DMX with inversed polarity is detected

Rear panel:



1. Power supply
2. SUB-D 1
3. SUB-D 2
4. SUB-D 3
5. SUB-D 4

Input and Outputs:

Input:

- USITT DMX 512 (1990)

Output:

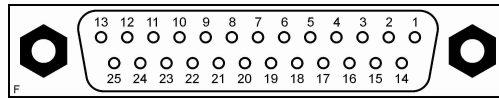
- 64/48 analogue outputs 0/+10V, max. 10 mA per output

Pin out for the XLR connectors:

Pin 1	Ground
Pin 2	Data -
Pin 3	Data +
Pin 4, 5	Not connected

The DMX output is wired in ratio 1:1 to the DMX Input.

Pin out for the SUB-D connectors [DTA 1664]:



OUTPUT 1

Pins	1-16	Channels 1-16
Pins	17-18	Not connected
Pins	19-25	Ground

OUTPUT 2

Pins	1-16	Channels 17-32
Pins	17-18	Not connected
Pins	19-25	Ground

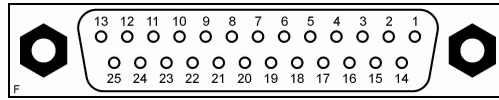
OUTPUT 3

Pins	1-16	Channels 33-48
Pins	17-18	Not connected
Pins	19-25	Ground

OUTPUT 4

Pins	1-16	Channels 49-64
Pins	17-18	Not connected
Pins	19-25	Ground

Pin out for the SUB-D connectors [DTA 1248]:



OUTPUT 1

Pins	1-12	Channels 1-12
Pins	17-18	Not connected
Pins	19-25	Ground

OUTPUT 2

Pins	1-12	Channels 13-24
Pins	17-18	Not connected
Pins	19-25	Ground

OUTPUT 3

Pins	1-12	Channels 25-36
Pins	17-18	Not connected
Pins	19-25	Ground

OUTPUT 4

Pins	1-12	Channels 37-48
Pins	17-18	Not connected
Pins	19-25	Ground

Technical data

Main:

- DC15 V, 0.5 A, external adapter

Housing:

- Steel housing with grey powder coating
- 482.5 x 44.5 x 130 mm

Weight:

- 1.5 kg



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SRS Group s.r.o.

Rybnicna 38/B | 831 07 Bratislava | Slovakia

Phone: +421 2 32 661 800

Email: sales@srs-group.com | www.srs-group.com

