## TECHNICAL DESCRIPTION

This interface is a Luxom network unit that allows you to communicate bi-directionally with the Luxom system over a serial port.

This interface enables all Luxom modules to be configured and controlled via an RS232 port.

Applications:
- Configuring the modules via the PlusConfig software
- Controlling the modules with the PlusView or with any 3rd party device.
- Setting the clock
- Requesting the status of inputs and outputs
    - Lights on / off / %
    - Rolling shutters open - closed
    - Status contacts (door, window, …)
    - Energy consumption
    - Wind speed
    - Temperature
    - Humidity and light levels
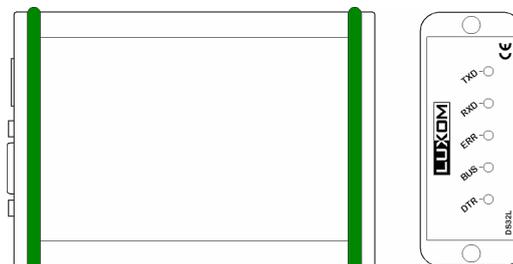
TECHNICAL DATA	
Power supply	24 VDC
Power consumption	0.6 VA
Installation	Portable
Casing	Aluminum
Connection BUS	RJ45
Connection RS232	DB9

| FUNCTIONAL DATA COMMUNICATION	
Port type	RS232
Bits per second	9600
Data bits	8
Parity	None
Stop bits	1
Flowcontrol	X-on/X-off
Warranty	3 years on exchange
Ambient temperature	0 - 50° C
Protection	IP 20
Dimensions LxWxH	115 x 85 x 35 mm

CONTROL LEDs	
DTR	Lit up when computer is connected with the interface. Does not have to be ON to communicate.
BUS	Blinks when there is traffic on the bus
ERR	When the Luxom bus is blocked – no communication is possible
RxD	Lights up when receiving data from the Luxom Bus
TxD	Lights up when sending data to the Luxom Bus

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This interface can be connected anywhere on the Luxom network within the installation:
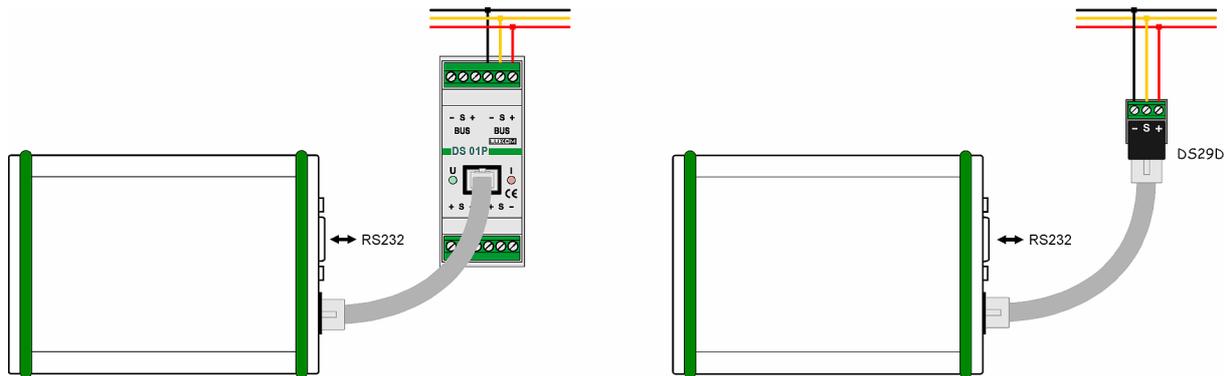
Note: The connection with the Luxom bus can also be made via a standard RJ45 connector.
It is sufficient to connect the RJ45 connector to the network in the following way:
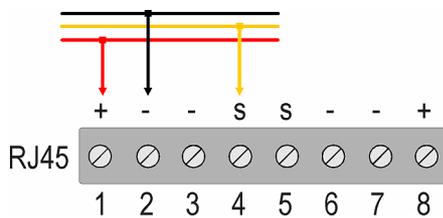

ASCII CONTROL COMMANDS

For communicating with the Luxom modules the interface uses the standardized ASCII protocol.
5 commands are used to control the Luxom modules or to request their status:

Command	Action	ASCII
Toggle	Toggle	**T**
Set	Turn on	**S**
Clear	Turn off	**C**
Analog	Data	**A + Z**
Ping	Request status	**P**

A standard ASCII telegram is built as follows:

Network ID   End telegram

*S,0,2,56;

Start telegram
Control command   BUS address (0,00 … F,FF)
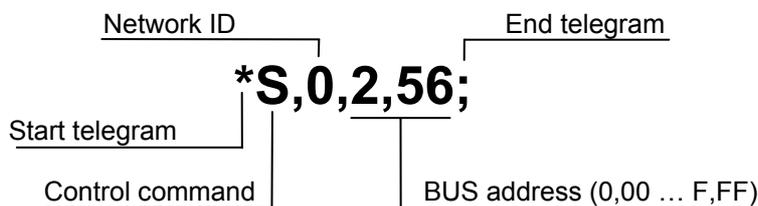
As you can see, every command is connected to one of the 4096 (16x256) available bus addresses.
This bus address is used as "virtual wire" and can be compared to the wire used in traditional
installation technique to control a lighting circuit via a light switch.

Every port (lighting circuit, ventilation, rolling shutter,…) connected to the Luxom system gets a unique
bus address.
When an input (push button, toggle switch, door contact, …) is given the same bus address as the one
given to the output, the virtual connection is active.

Note:
Should more than one push button be used to control the same port, these are all set with the same
bus address.