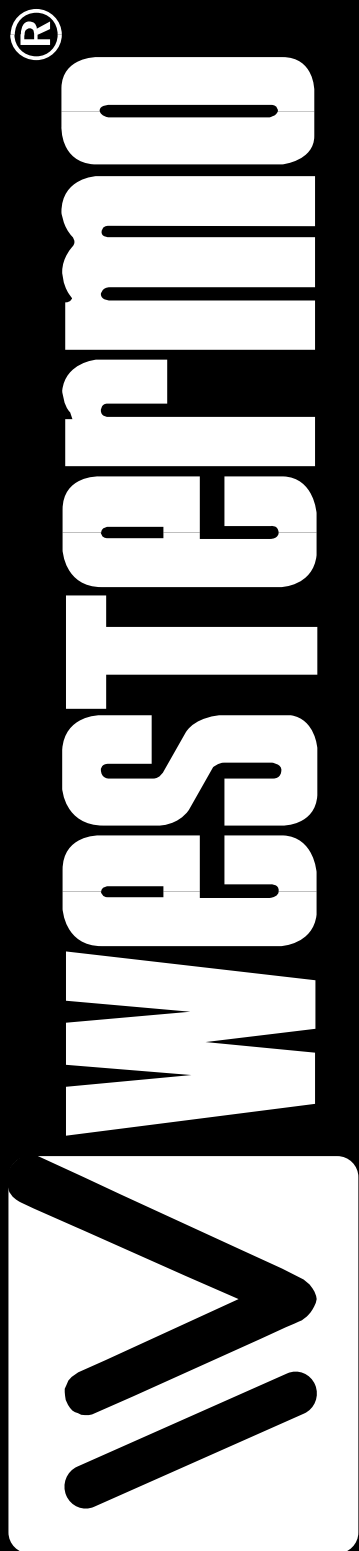
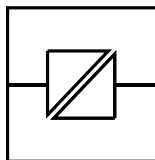




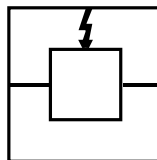
LA-01 AC
LA-01 DC

INSTALLATIONSANVISNING INSTALLATION MANUAL INSTALLATIONS ANLEITUNG MANUEL D'INSTALLATION

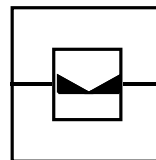
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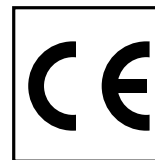
Galvanic
Isolation



Transient
Protection



Balanced
Transmission



CE
Approved



*Linjedelare
Line split unit
Leitungsteiler
Modem Partage de ligne*

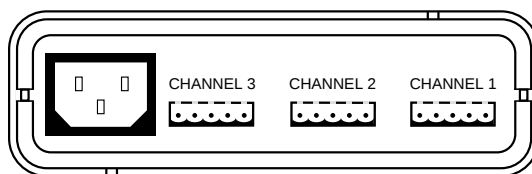
 **westermo**[®]
www.westermo.se

Specifications

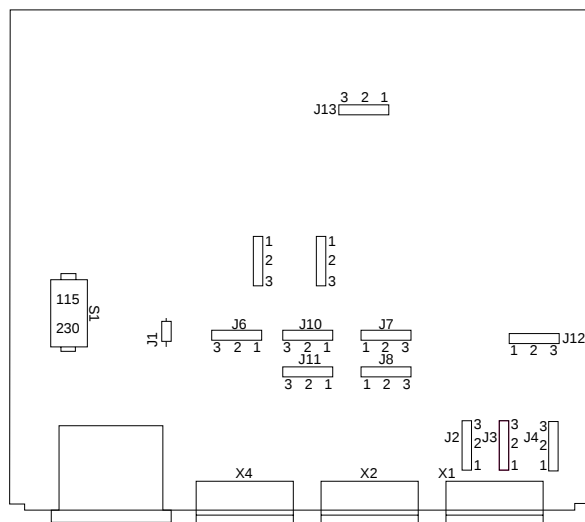
Transmission Interface	Asynchronous, full/half duplex or simplex Interface 1: EIA RS-232-C/ITU-T V.24 Interface 2: ± 10 mA current loop Interface 1 and 2 are selectable on each channel
Connection	Channel 1, 2 and 3: 5-pos screw terminal
Transmission rate	Data rates up to 38 400 bit/s
Indicators	Power Channel 1: RD, TD, DCD Channel 2, 3: DCD
Isolation	Galvanic isolation with opto-coupler (Interface 2) and transformer (supply) Interface 1: Only isolation against supply
Isolation voltage	1 500 V
Overvoltage protection	Mains: Breakdown voltage 440 V at 230 V AC and 220 V at 115 V AC Interface 2: Breakdown voltage transmitter 15 V, receiver 7 V Surge capacity 0.6 kW during 1 ms
Power supply	Switchable 115/230 V 48–62 Hz +15/–10%
Fuse	100 mA fast 5x20 mm
Power consumption	Max 7 VA at 230 V
Temperature range	5–50°C, ambient temperature
Humidity	0–95% RH, non-condensing
Dimension	161x139x53 mm (WxHxD)
Weight	0.6 kg
Mounting	With rubber pads or screws. Screws: Remove the two "keyholes" on the bottom of the case.

Settings

The LA-01 can through different settings be adapted to a variety of running conditions. To set the jumpers, open the plastic case by placing and turning a screw-driver between top and bottom at the rear of the case.

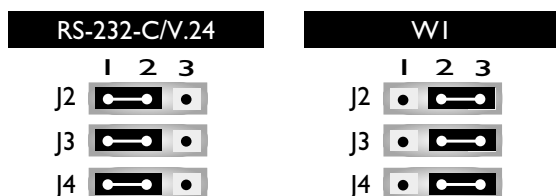


Warning! Do not open connected unit

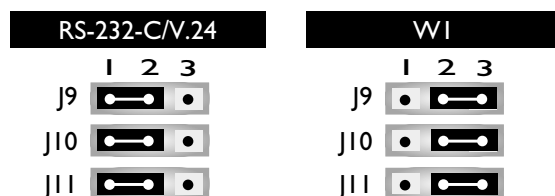


- J2 – J11** Selection of RS-232-C/V.24 or WI interface on channel 1, 2 and 3
- J12/J13** Selection of V or Y function, see block diagram
- S1** Selection of power supply
115 V/230 V AC
- J1** Connects protected ground to signal ground.

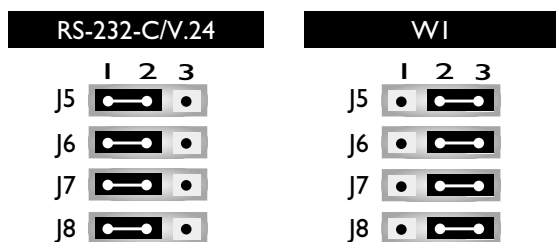
RS-232-C/V.24 or WI, channel 1



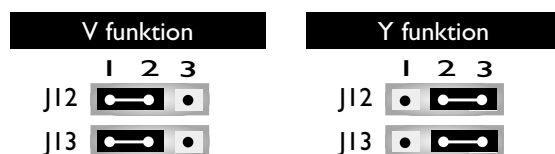
RS-232-C/V.24 or WI, channel 3



RS-232-C/V.24 or WI, channel 2



V or Y function



Factory setting



Connections

RS-232-C/V.24

Direction	RS232-C/V.24			ITU-TV.24 Circuit no.	Description
	Channel 1	Channel 2	Channel 3		
I	1	1	1	103	TD/Transmitted Data
O	2	2	2	104	RD/Received Data
O	4	4	4	–	+12 V (Pull-up resistor)
–	5	5	5	102	SG/Signal Ground

I = Input, **O** = Output on LA-01

10 mA balanced current loop

Direction	Pin configuration 10 mA balanced current loop			WI Description
	Channel 1	Channel 2	Channel 3	
Receiver	1	1	1	(R+)
Receiver	2	2	2	(R–)
Transmitter	3	3	3	(T+)
Transmitter	4	4	4	(T–)
	5	5	5	Shield *

* If shielded cable is used, connect the shield only at one end to avoid ground currents.

Transmission range (10 mA balanced current loop)

Cable	Transmission speed bit/s						
	600	1 200	2 400	4 800	9 600	19 200	38 400
42 pF/m 0.3 mm ²	18 000 m	12 000 m	8 000 m	5 000 m	2 500 m	1 000 m	500 m

LA-01 DC

Specifications

Power supply 12–36 V DC
Power consumption Max 3 W
Isolation 1000 V
Fuse F1 1.6 A fast 5x20 mm
 All other specifications according to LA-01 AC

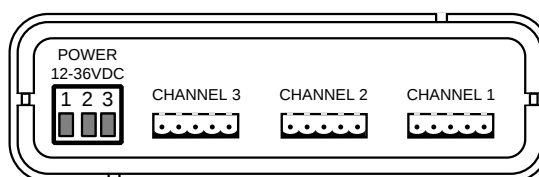
Switch settings

According to LA-01 AC

Connections

According to LA-01AC, except power supply

Connection no.	Power supply
1	+ Voltage
2	– Voltage



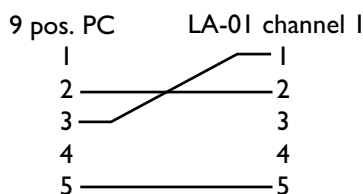
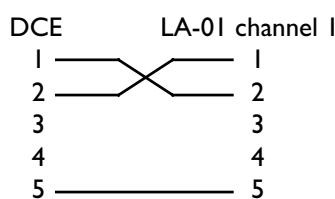
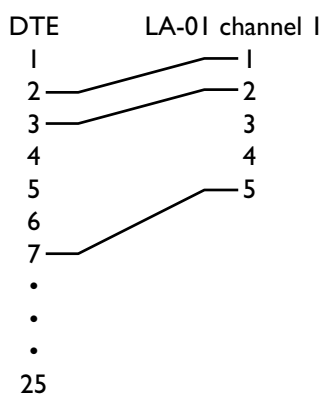
Hints

LA-01 has three channels and they can be configured as RS-232/V.24 or as WI connection. The LA-01 splits the line and repeats the signal in a multidrop system. The maximum number of units in serial connection is 14 LA-01:s.

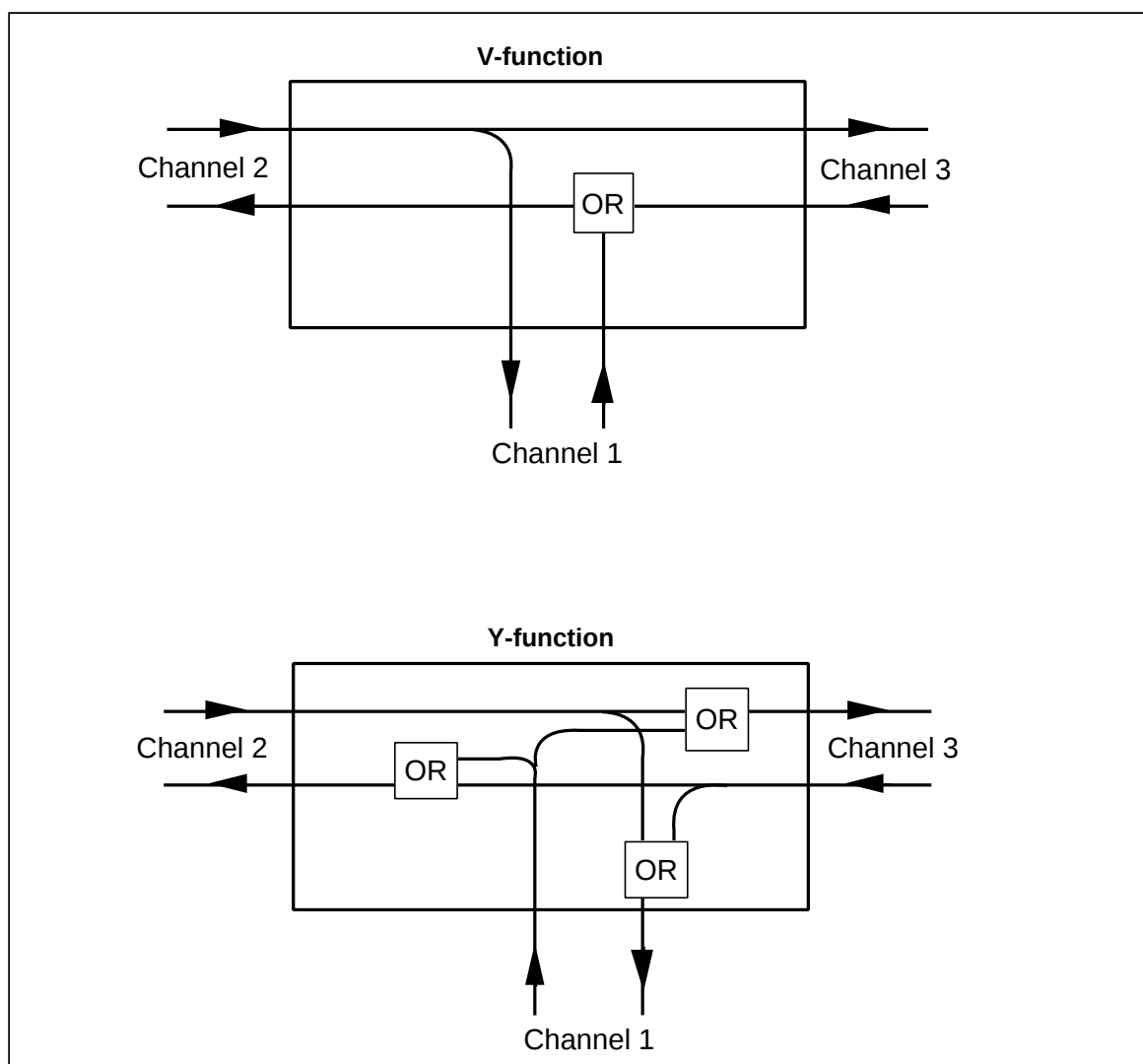
The drop channel (no 1) is configured as DCE (Data Communication Equipment). Most printers, PC's and terminals are set as DTE (Data Terminal Equipment). Some recommendation of cable configurations are given below.

If any problems do occur on set up of the LA-01:s, the LED's will be helpful.

- PWR: The unit has power.
- RD channel 1: Data received from channel 2 or 3
- TD channel 1: Data received from connected unit
- DCD channel 1: Indicates that WI is connected to channel 1
- DCD channel 2: Indicates that WI is connected to channel 2
- DCD channel 3: Indicates that WI is connected to channel 3.



Block diagram



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