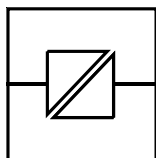


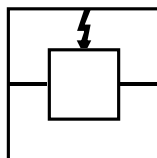
LD-01 AC
LD-01 DC

INSTALLATIONSANVISNING INSTALLATION MANUAL INSTALLATIONS ANLEITUNG

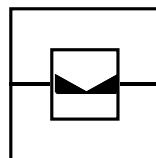
6154-2001



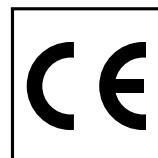
Galvanic
Isolation



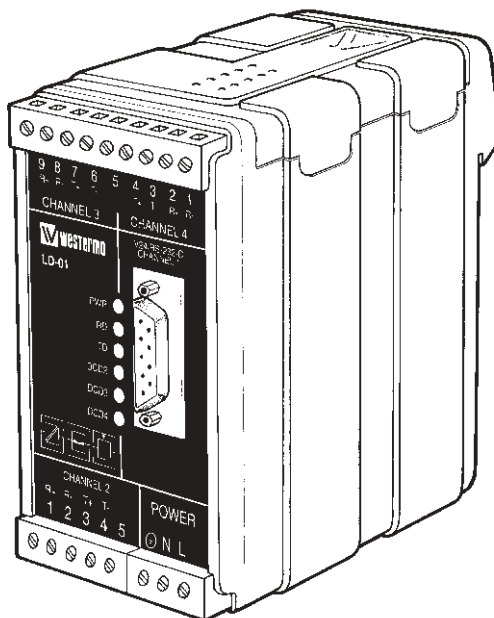
Transient
Protection



Balanced
Transmission



CE
Approved



*Linjedelare
Line Split Unit
Leitungsteiler*

 **westermo**[®]
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WESTERMO

Specifications LD-01

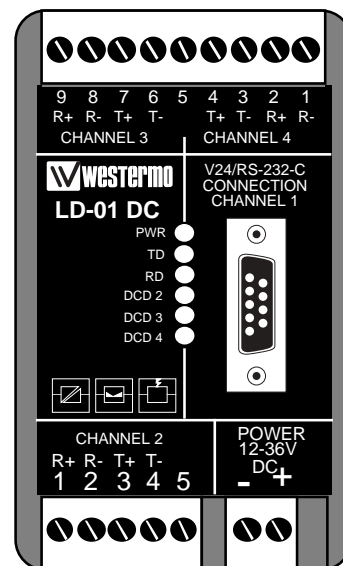
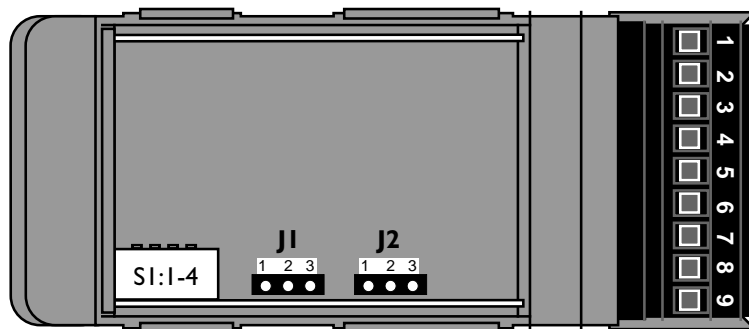
Transmission	Asynchronous, full/half duplex or simplex
Interface 1	EIA RS-232-C/V.24 fixed on channel 1, selectable on channel 2 and 3
Interface 2, (WI)	10 mA balanced current loop fixed on channel 4, selectable on channel 2 and 3
Connection	Channel 1: 9 pin D-sub female Channel 2: 5 pos screw-terminal Channel 3, 4: 9 pos screw-terminal
Transmission rate	Data rates up to 38.4 Kbit/s
Indicators	Power Channel 1: RD, TD Channel 2–4: DCD
Isolation	Galvanic isolation with opto-coupler (Interface 2) and transformer (supply) Interface 1 only isolation against supply
Isolation voltage	1500V
Overvoltage protection	Mains: Breakdown voltage 430V at 230V AC and 230V at 115V AC* Breakdown voltage transmitter 15V, receiver 5.8V Surge capacity 0.6 kW during 1 ms
Power supply	115V*/230V AC 48–62Hz +15/–10%
Fuse	100 mA fast 5x20 mm
Power consumption	Max 4VA at 115V*/230V AC
Temperature range	5–50°C, ambient temperature
Humidity	0-95% RH, non-condensing
Dimension	55x100x128 mm (WxHxD)
Weight, kg	AC 0,5 / DC 0,3
Mounting	On DIN-rail 35 mm

* LD-01 115V AC only

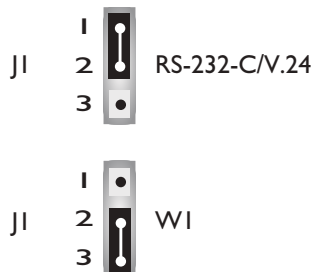
Switch settings

The LD-01 can through different switch settings be adapted to a variety of running conditions. To set the switches, open the lid on the top of the plastic case.

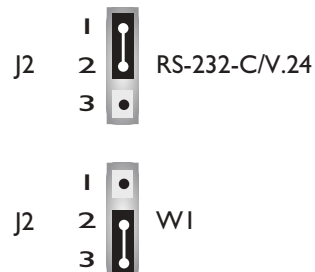
WARNING!
DO NOT OPEN CONNECTED UNIT



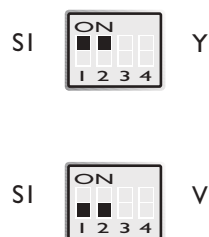
RS-232-C/V.24 or WI, Channel 2



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

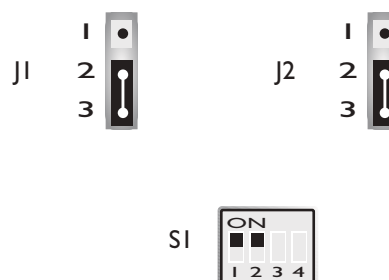


V or Y function



SI:3 and 4 not used
See functional description

Factory settings



Connections


Connection RS-232-C/V.24

Direction DCE	RS-232-C/V.24			CCITT V.24 Circuit no.	Description
	Channel 1	Channel 2	Channel 3		
O	1	4	6	109	DCD/Data Carrier Detect
O	2			104	RD/Received Data
I	3			103	TD/Transmitted Data
I	4			108/2	DTR/Data Terminal Ready
-	5	5	5	102	SG/Signal Ground
O	6			107	DSR/Data Set Ready
I	7			105	RTS/Request To Send
O	8			106	CTS/Clear To Send
NC	9				

I = Input O = Output, the LD-01 is a DCE (Data Communication Equipment) NC = Not connected
 □ = the signals are only connected with each other.

Power connection (AC)

(3-position screw-terminal)

Screw no.	Power Supply
N L	115V*/230V AC power
	PE/Protective Earth

* LD-01 115V only

Line connection

Direction	Pin configuration 10mA balanced current loop			Signal name
	Channel 2	Channel 3	Channel 4	
Receiver	1	9	2	R+
Receiver	2	8	1	R-
Transmitter	3	7	4	T+
Transmitter	4	6	3	T-
	5	5	5	I) Shield

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

Transmission range (10mA balanced current loop WI)

Cable	Transmission data rate bit/s						
	42pF/m 0,3mm ²	600	1200	2400	4800	9600	19200
	18000m	12000m	8000m	5000m	2500m	1000m	500m

LD-01 DC

Specifications

Power supply 12–36V DC, 36–55V DC*

Power consumption Max 3W

Insulation 1000V

Fuse FI 1.6 A fast 5x20 mm

* LD-01 DC, 36–55V DC only

All other specifications according to LD-01 AC

Switch settings

According to LD-01 AC

Connections

According to LD-01 AC, except power supply

Connection no	Power Supply
1	– Voltage
2	+ Voltage

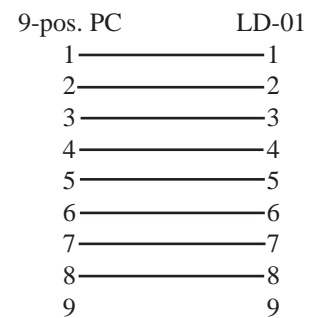
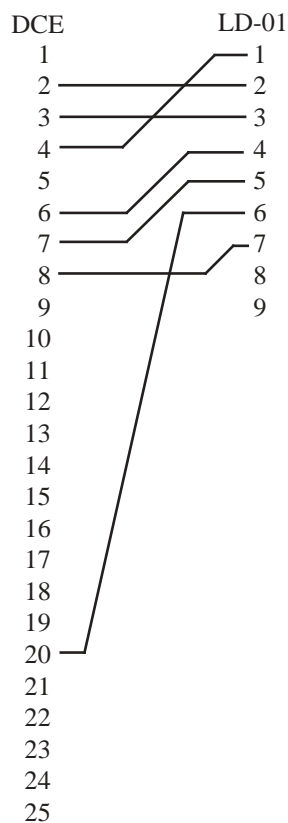
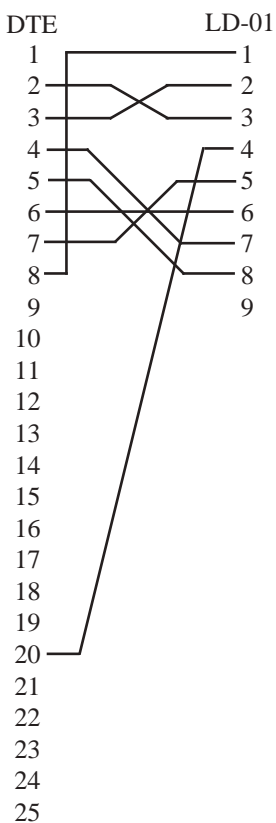
Hints

LD-01 has four channels. Channel 1 has RS-232 interface and channel 2 and 3 can be configured as RS-232 or WI interface. Channel 4 has only WI interface. The LD-01 splits the line and repeats the signal in a multidrop system. The maximum number of units in serial connection is 14 units.

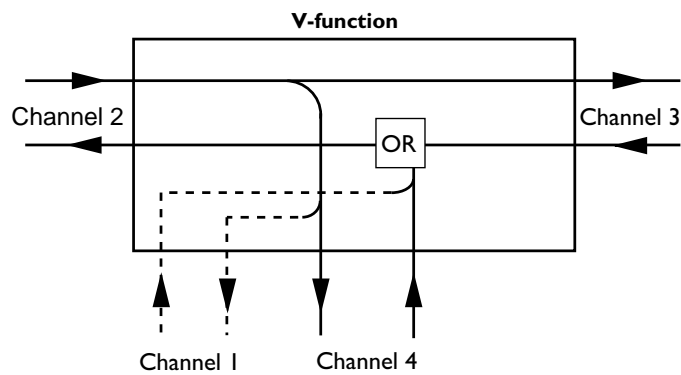
The drop channel (no 1) is configured as DCE (Data Communication Equipment). Most printers, PC's and terminals are set as DTE (Data Terminal Equipment). A recommendation of cable configurations is given below.

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

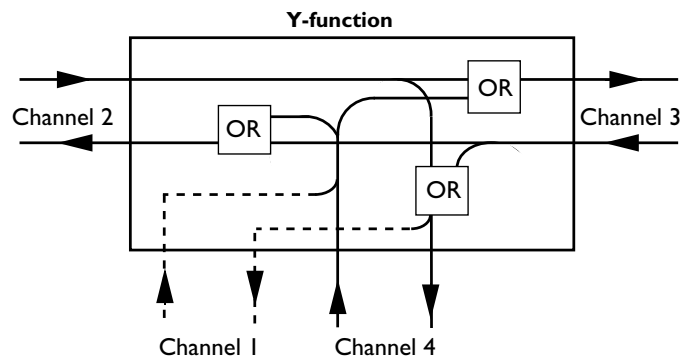
- PWR: The unit has power.
- RD channel 1: Indicates transmitted data from channel 1
- TD channel 1: Indicates received data on channel 1
- DCD channel 2: Indicates that WI is connected to channel 2
- DCD channel 3: Indicates that WI is connected to channel 3
- DCD channel 4: Indicates that WI is connected to channel 4



Functional Description



Communication between master and slaves.



Communication between all connected units.

Westermo Teleindustri AB have distributors in several countries,
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