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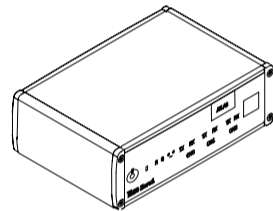
ELECTRONIC SUPPORT SERVICE
www.iseozero1.com

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1. MAIN FUNCTION

- Embedded Linux server
- Ethernet TCP/IP 10/100 base T connection
- n. 1 Lockbus channel to connect Stylos readers and actuators (max 8+8)
- n. 2 RS485 channels to connect F9000 on-line readers (max 2)
- Compatible with Lockbus and RS485 readers and actuators
- n. 2 USB Host channels (+ 1 USB channel for configuration)
- n. 1 MicroSD slot
- Desktop housing
- Power supply 12-24Vdc
- Power supply 230Vac/12Vdc included
- Maximum Power Consumption 15 W

- **ATLAS SERVER FOR RFID AND F9000 OFF-LINE DEVICES**
Package: 1 server with connectors, 1 power supply, 1 installation manual cod. 5E002010



2. TECHNICAL FEATURES

Communication interfaces:

- 1 Ethernet interface TCP/IP 10/100 base T
- 1 Lockbus channel
- 2 RS485 channels
- 2 USB channels
- 1 USB channel for configuration
- 1 serial interface (debug)

Power supply:

- 12-24Vdc
- Maximum power consumption 15W

Backup batteries:

- 1500mAh battery pack
- estimated duration 30 minutes backup

CPU and memory:

- ARM 9 based CPU module
- 200MHz CPU clock (ATMEL AT91SAM9263)
- 64MB SDRAM
- 256MB Flash
- 8GB Micro-SD

Operative system:

- Linux (Kernel 2.6.28)

Signaling: 12 LEDs

- Power line active (green)
- Backup battery operating (yellow)
- Ethernet (orange)
- Tx/Rx channel 1 (2 orange)
- Tx/Rx channel 2 (2 orange)
- Tx/Rx channel 3 (2 orange)
- User 1 and 2 (red and green)

Pushbutton:

- 1 reset

Housing:

- Pushbutton
- Black
- LxPxH 167x110x53 mm

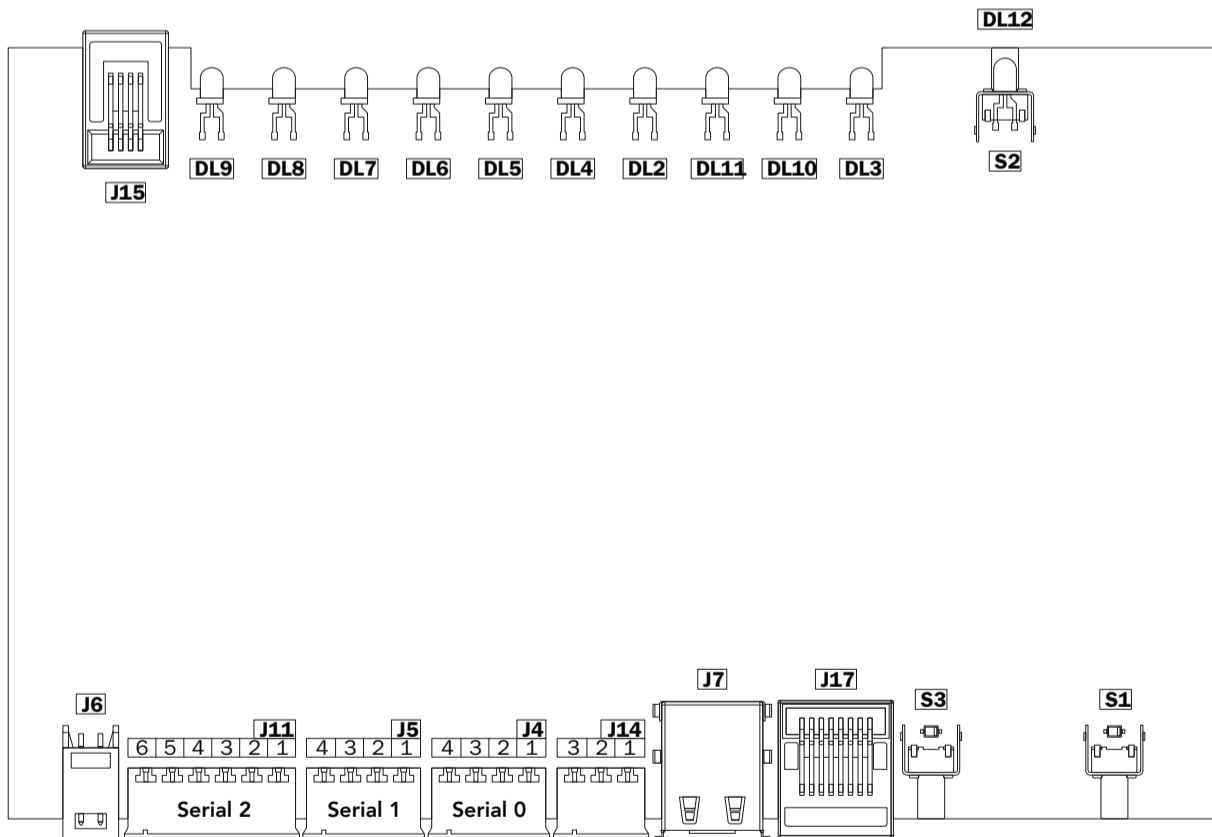
Power Supplier:

- Input 230Vac
- Output 12Vdc
- 2 poles plug

Environmental characteristics:

- Operating temperature: 0°C ÷ +50°C;
- Storage temperature: -25°C ÷ +75°C.

3. ATLAS: PIN IN/OUT



Debug serial	Signal name
J15 - 1	GND
J15 - 2	+ 5 Vext
J15 - 3	DEBUG-UART-RX
J15 - 4	DEBUG-UART-TX

LED	Function	Colour
DL9	UART 2 RX	Orange
DL8	UART 2 TX	Orange
DL7	UART 1 RX	Orange
DL6	UART 1 TX	Orange
DL5	UART 0 RX	Orange
DL4	UART 0 TX	Orange
DL2	ETH - LINK	Orange
DL11	USER 1	Green
DL10	USER 0	Red
DL3	Battery Powered	Yellow
DL12	Line Powered	Green

Serial 2	Signal name
J11 - 1	SER - 2 D -
J11 - 2	SER - 2 C -
J11 - 3	SER - 2 B -
J11 - 4	SER - 2 A -
J11 - 5	GND
J11 - 6	+ 5V

Serial 1	Signal name
J5 - 1	SER - 1 - B
J5 - 2	SER - 1 - A
J5 - 3	GND
J5 - 4	+ Power

Serial 0	Signal name
J4 - 1	SER - 0 - B
J4 - 2	SER - 0 - A
J4 - 3	GND
J4 - 4	+ Power

Power Connector	
J14 - 1	+ Power
J14 - 2	- Power
J14 - 3	Earth

Ethernet	Signal name
J17 - 1	TX +
J17 - 2	TX -
J17 - 3	RX +
J17 - 4	Not to be used
J17 - 5	Not to be used
J17 - 6	RX -
J17 - 7	Not to be used
J17 - 8	Not to be used

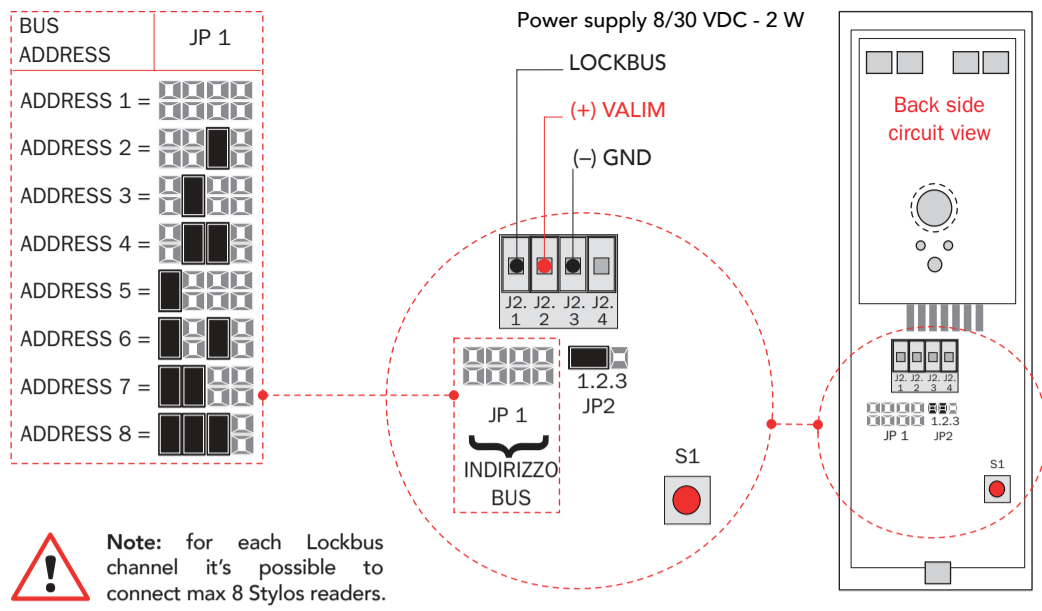
Push Buttons	
S1	Reset
S2	Shdwn - Wakeup
S3	User

4. WARNINGS

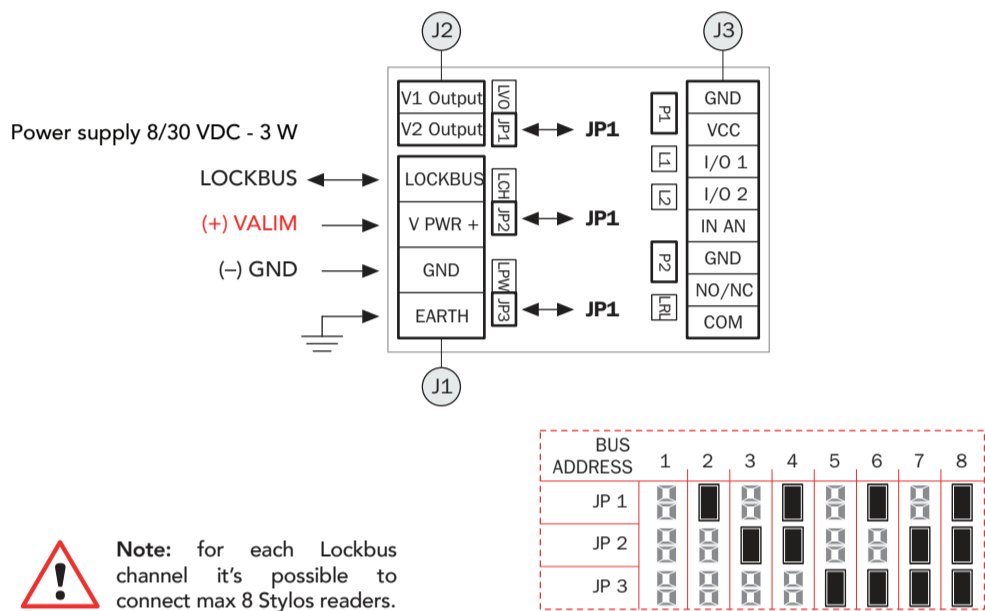


- The calculation of the cables section must be performed by qualified staff.
- Max cable length of Lockbus channel is 100 mt.
- Recommended voltage for Lockbus channel: 24 VDC.
- In case of power failure the rechargeable batteries inside the Atlas ensure power for 16 hours max.
- Acquire the serial cable to set up the IP address and use the following credentials to log in:
login = maint
password = microhard
- It is advisable to provide for an appropriate sectioning and protection switch upstream of the transformer.
- The electrical connection must be made pursuant to the laws force.
- For any technical assistance or repairs, contact only Fiam or a technical assistance centre authorised by Fiam.
- Fiam s.r.l. reserves the right to make all of modifications that the same deems necessary to the product and the instruction manual, without prior notice, in order to improve the quality or for manufacturing and marketing necessities.

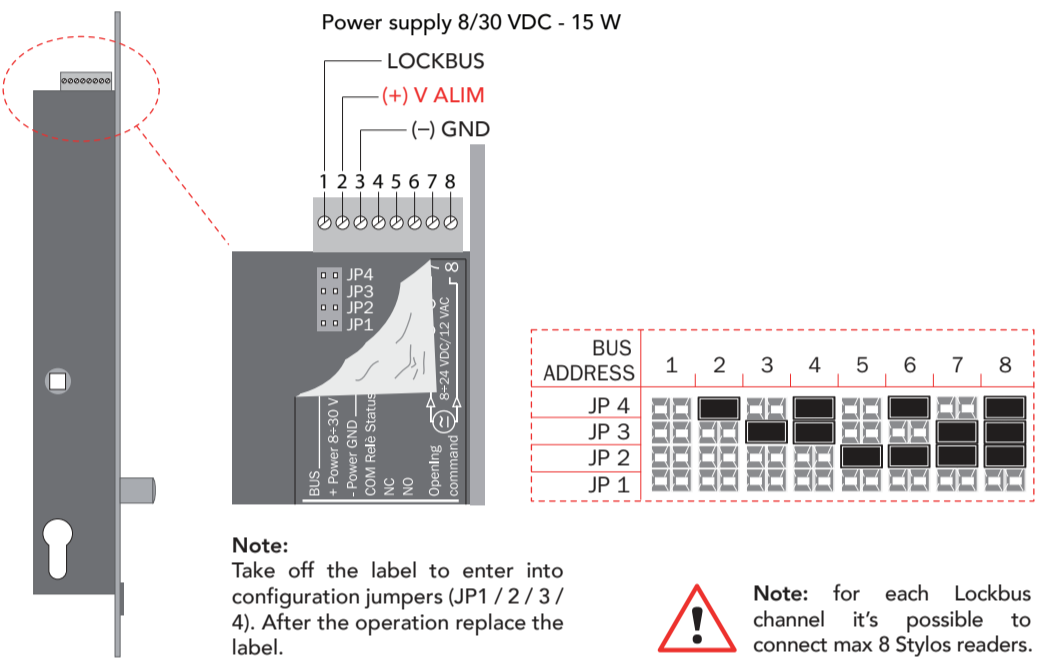
5.1 SETTING TABLE WITH STYLOS READER



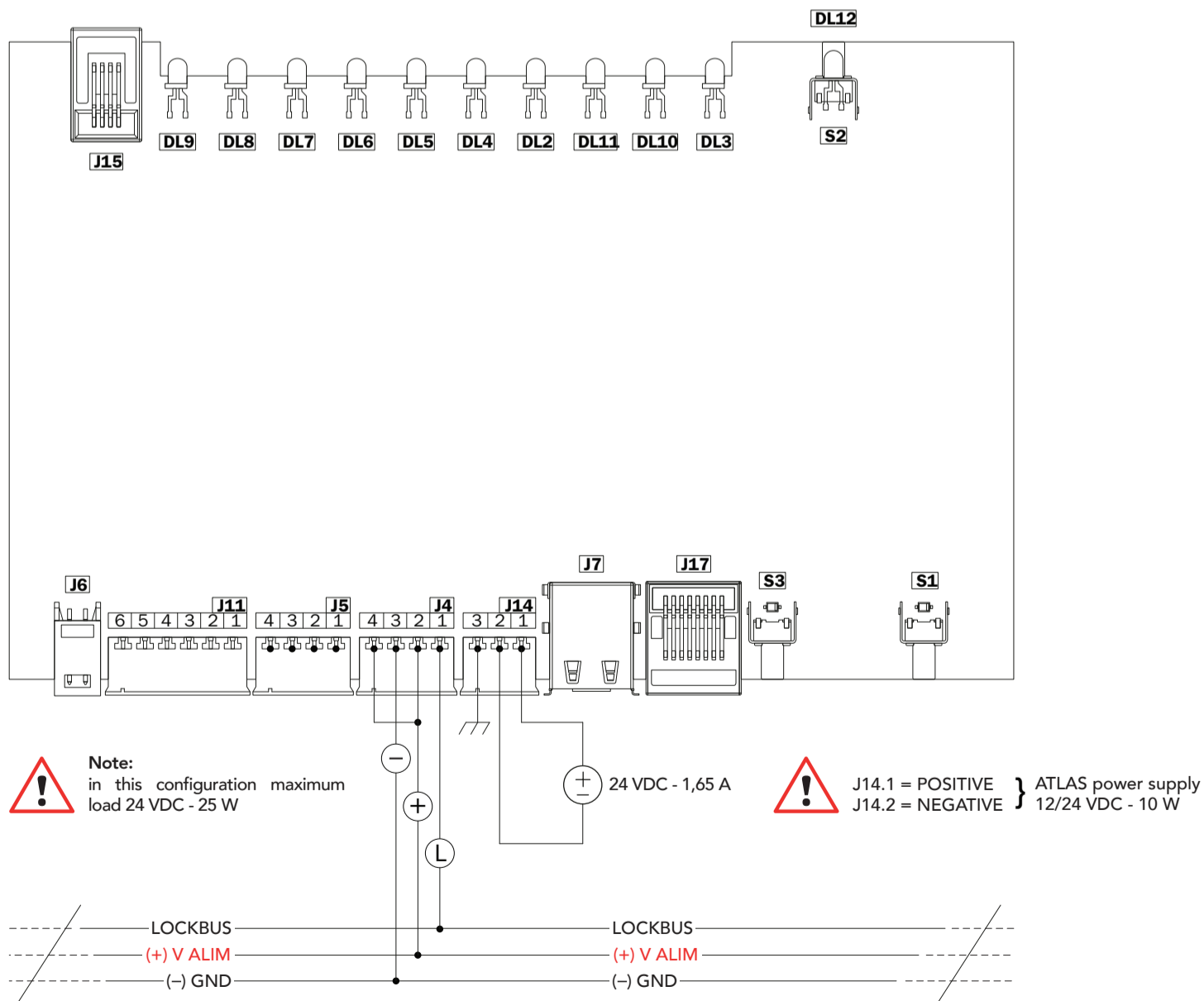
5.2 SETTING TABLE WITH STYLOS LINE SERIES' ACTUATOR



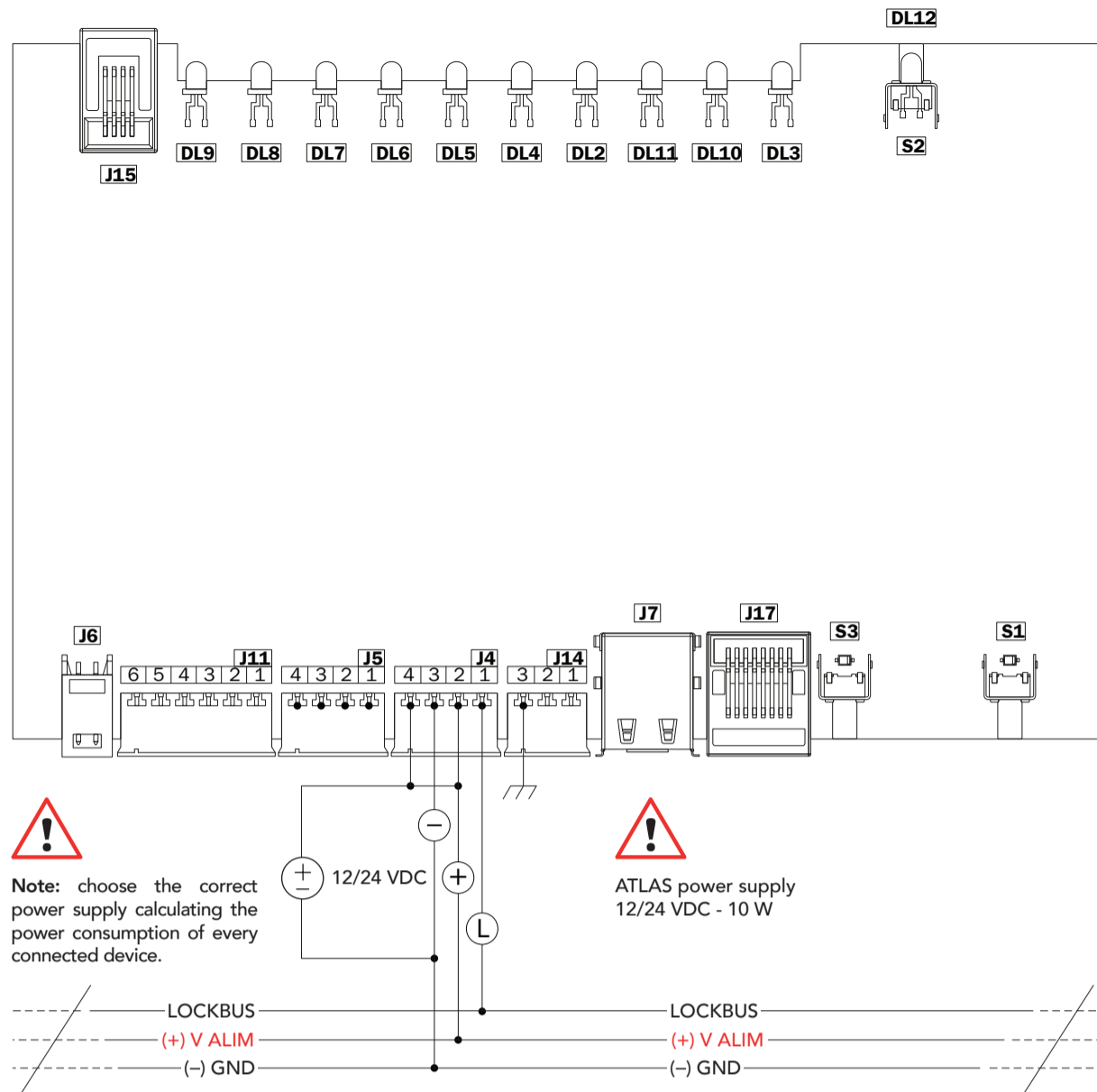
5.3 SETTING TABLE WITH THESIS 2.0'S ACTUATOR



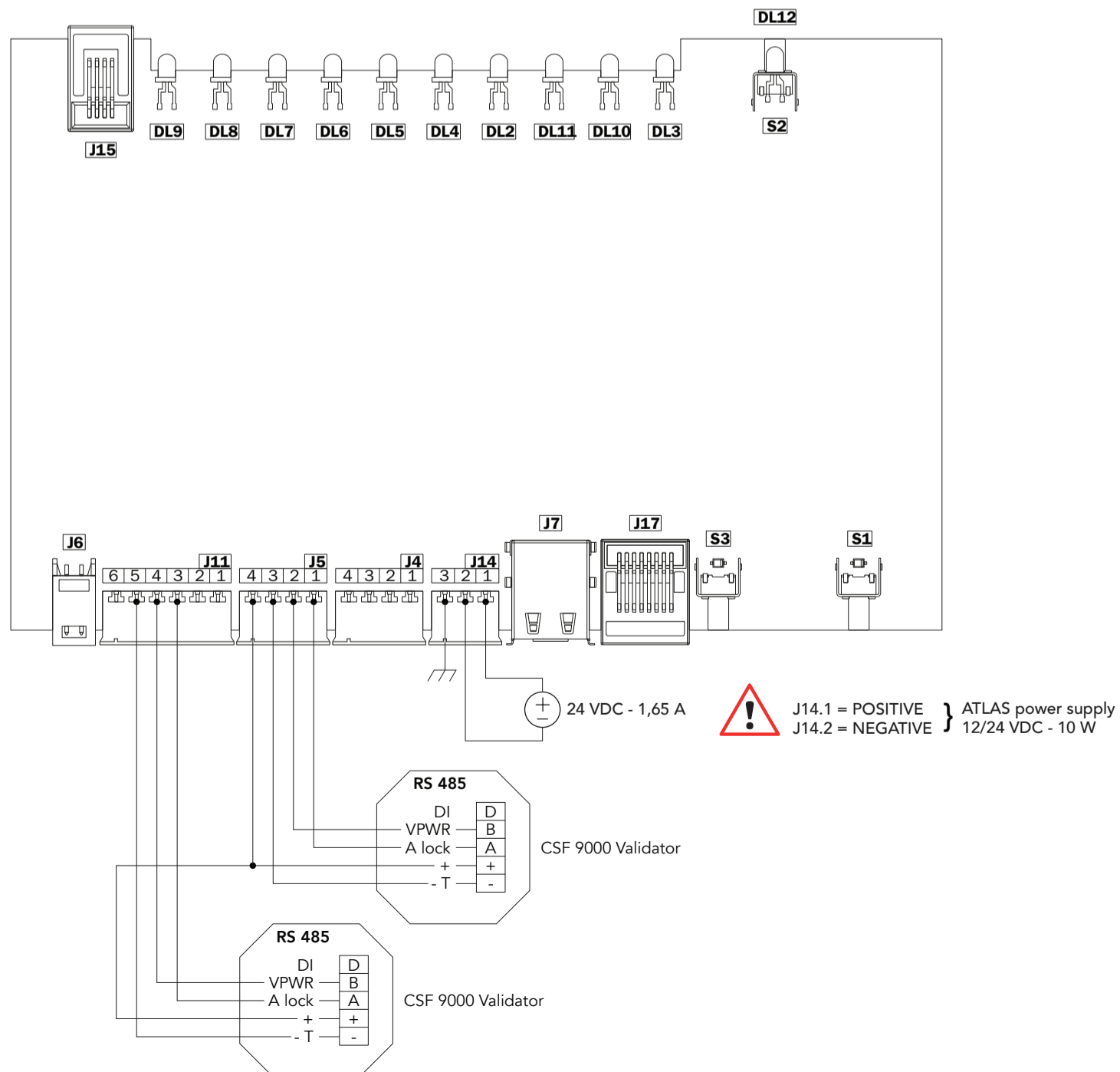
6.1 ATLAS: RFID PLANT - CONNECTION EXAMPLE (POWER SUPPLY SUPPLIED)



6.2 ATLAS: RFID PLANT - CONNECTION EXAMPLE (LOCKBUS POWER SUPPLY)

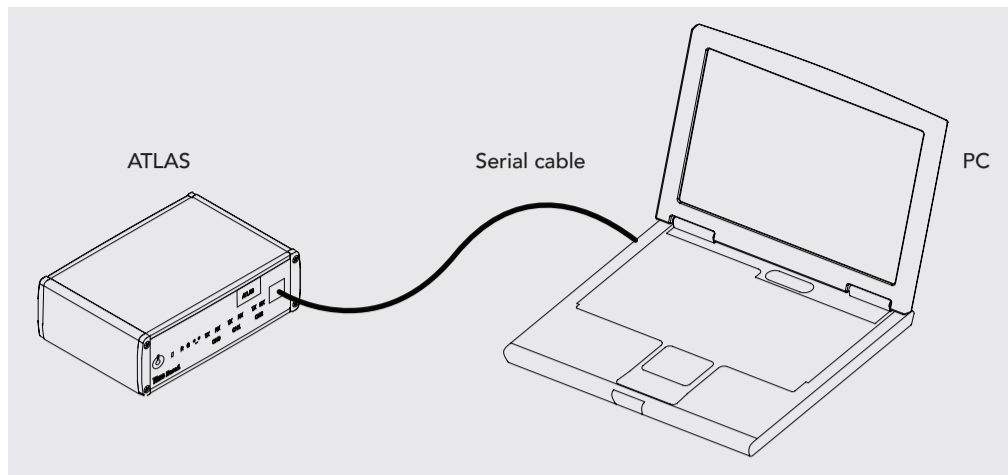


6.3 ATLAS: F9000 PLANT - CONNECTION EXAMPLE (POWER SUPPLY SUPPLIED)



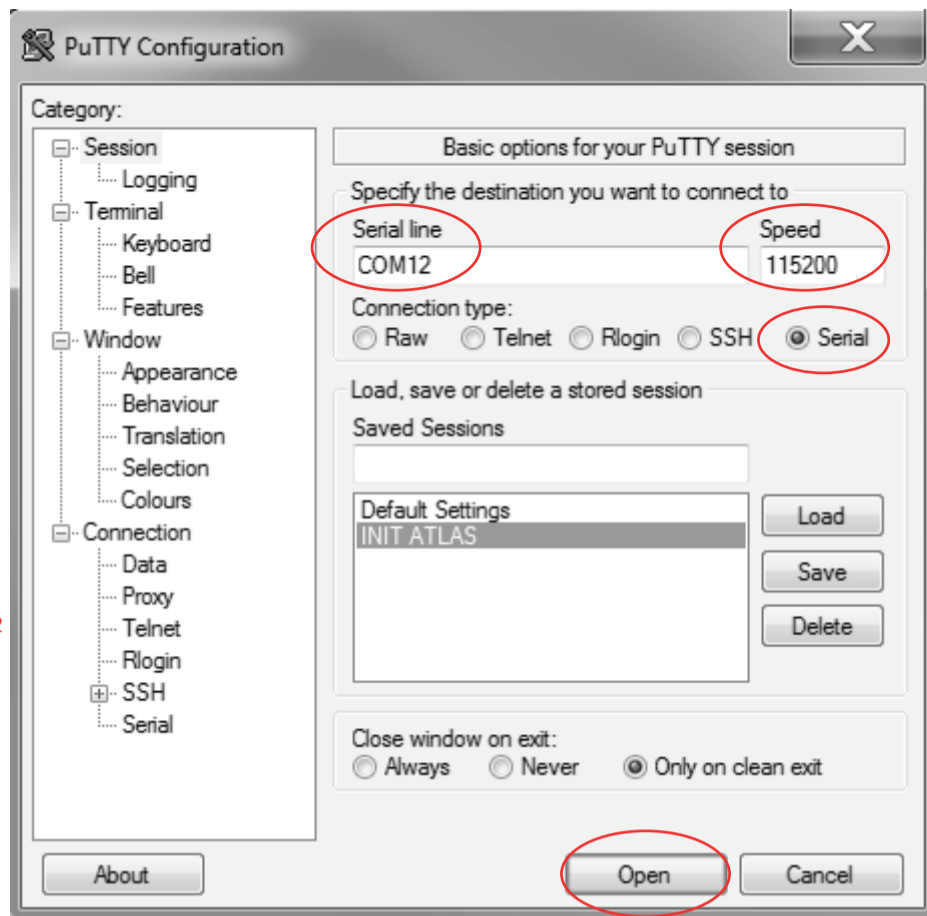
7. ATLAS: IP ADDRESS CONFIGURATION

- Download "PuTTY" free software from www.putty.org
- Connect the serial cable from Atlas J15 terminal to a computer USB port where PuTTY is installed (see img 01)



img 01

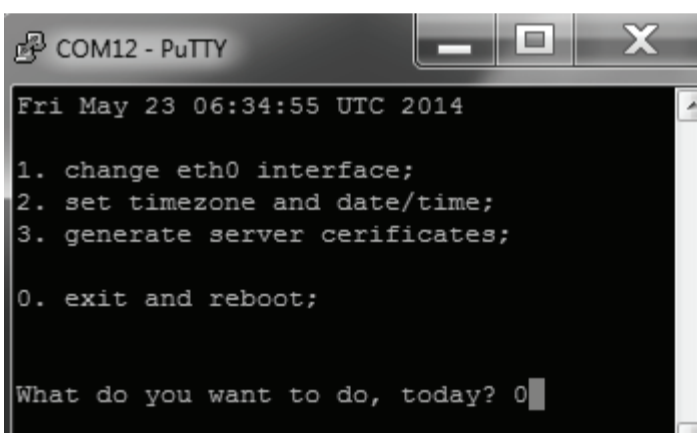
- Start up PuTTY program and in the configuration window (see img 02):
 - in Serial line set up the COM door number assigned to the cable (COM12 in the example)
 - in Speed digit 115200 as the speed communication
 - in Connection type select Serial



img 02

- click on **Open** (the Atlas dialogue window appears)
- press **Enter** and login with the following credentials: login = `maint`
password = `microhard`
- digit **1** (see img 03), press **Enter** and follow the instructions to configuring the device's IP address (default: 192.168.0.184)
- when finished digit **0** and press **Enter**

img 03



8. SIRIO OFF-LINE SYSTEM

