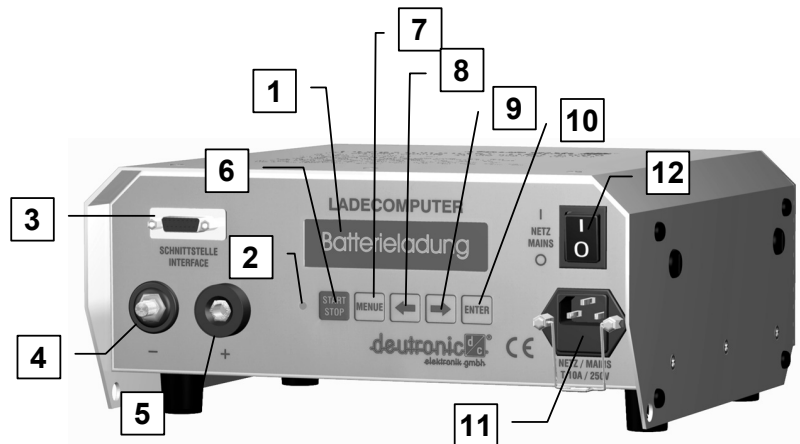


Operating Instructions Compact Version 3.0



- | | |
|---|------------------------------------|
| [1] LCD display | [6] Start/Stop button |
| [2] LED | [7] Menu button |
| [3] Interface (not on DIPL430) | [8] Reduce button |
| [4] Battery cable connector (black jaw - negative) (not on DIPL430) | [9] Increase button |
| [5] Battery cable connector (red jaw + charging point) (not on DIPL430) | [10] Enter button |
| | [11] Jack for mains cable |
| | [12] Mains switch (not on DIPL430) |

GENERAL SAFETY INFORMATION

- The unit may not be opened. Opening the unit will result in the invalidation of the test certificate.
- Only connect 12 volt (DBL 430/1000-14) and/or 24V (DBL 430/1000-28) and/or (DBL1000-42) voltage rated batteries!
- Batteries may under no circumstances be charged in the operational power supply mode (PS-Mode) !
- Batteries must have a minimum rated capacity of 1 amp hour.

More safety information see operators manual!!!!

Operation

(a) BC-Mode

	<i>Display Message</i>	
a.a Mains switch [12] on	Standby	Battery-Error
a.b Battery connect, red + / black -	Standby	--.-V L-Mode
a.c Press Start/Stop button [6]	Ampere-Hours P max:	250Ah
a.d adjust with arrow buttons[8]+[9]	+10% above capacity of battery .	
a.e Press Enter [10]		
a.f Unit charges - green LED [2] shines	--.-A	--.-V BC-Mode
a.g Green LED [2] blinks it Battery is charged	--.-A	--.-V FC-Mode
a.h Finish process with Start/Stop button [6]	STANDBY	--.-V BC-Mode
a.i disconnect cable		

(b) PS-Mode (Power Supply without Battery)

(makeshiftly suitable for battery voltages below starting voltage – only charge under observation)

b.a Mains switch ON [12]	Standby	Battery-Error
b.c Battery disconnect, red + / black -	Standby	Battery-Error
b.d Press Start/Stop button [6]		Battery-Error
b.e Press 3x MENUE button [7]	Standby	--.-V PS-Mode
b.f Press Start/Stop button[6] LED [2] shines	--.-A	--.-V PS-Mode
b.g Unit operates. Allow 10 minutes for charging		
b.h* After appro.10 min press 3x MENUE button [7]	Standby	--.-V PS-Mode

Next Stepp see a.c (Battery charging)

ATTENTION: While charging, no electric circuits of vehicle shall be ON (lights, radio etc.).

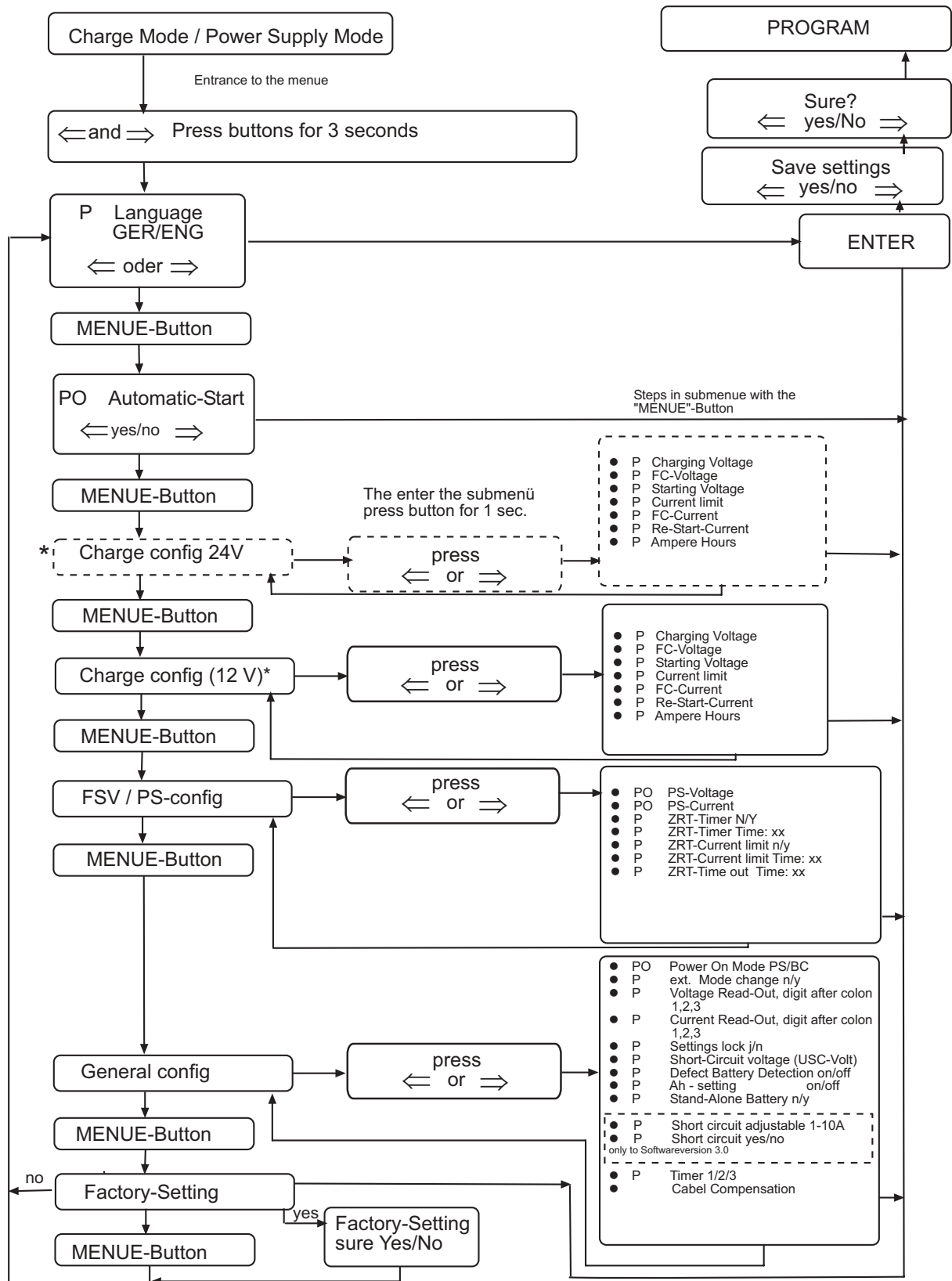
(c) In case of electric consumers ON, unit shows „SHORTED CELL“ after a while.

Disable defect battery according to manual.

NOTE: By switching on electric loads, detection of eventually defect battery is prevented.

Deutronic does not assume any liability for this.

- In case display shows „BATTERY ERROR“ there is a faulty battery. It shall not be charged ! (Refer to safety instructions).



* only at 24V Versions

P = Parameter modification active instantaneously

PO = Parameter modification valid after next OFF/ON of mains [12]

More detailed description can be found in operators manual or at www.deutronic.com

Error messages

Indicator	Meaning	Trouble shooting
Short circuit	Short-circuited at output	Remove charging cable, correct short circuit
Polarity reversed	The polarity connectors on the battery are reversed.	Connect red jaw to plus, black jaw to minus
Over voltage	On the output a voltage of more than 16 V has appeared longer than 5 seconds. (32V at 28V version, 48V at 42V version)	1. Checke connected load for errors (incorrect battery) 2. Turn off the mains switch [12] 3. Wait 20 seconds [till the indicator is gone] 4. Turn on the mains again If the error appears again, the unit is defective and must be repaired.
Battery-Error	Unit is set to „battery charger“, no battery attached.	- Battery voltage < 5V * - Charging clips not connected. - Charging cable defective.
Shorted cell	In case of good battery: Erratic message	In case battery is definitely good: Disconnect load in parallel, or set shorted cell detection to NO (Gernal Configuration) an Ah-Settings
Power Supply	Unit is switched to “auxiliary power supply”.	If battery is charged switch unit over in parameter menu to charge mode.
Ampere-Hours Over	Charger has terminated at preset ampere-hours	-battery defect - increase the ampere-hours setting It is advisable to adjust an approx. 20% higher ampere-hour as pronted on the battery to be charged.
CL-Error	Currentlimit was exceeded (only active in PS-Mouds)	Disconnect charging cables. Check attached equipment and change current limit if necessary.
Device-Error NTC’s open or Overtemperature	There is a temperature fault	- charger is operated outside the permitted ambient temperature - The charger is defect an must be sent in for inspection
Device-Error CRC-Error	The stored check-sum doesn’t match with the calculated one	Parameters were change by RS232 without calculating check-sum newly 1. Press “←” and “→” at the same time 2. Press “Enter” 3. to “save value” select “Yes” 4. “save value – sure” select “Y”
Device-Error Transfer-Failure	Fault at access to the EEPROM	The charger is defect and must be sent for inspection
Adapting Voltage	This massage doesn’t die after 3 seconds at usual	- active in the menue “Factory-Settings” see p.18 [30], - The chargingvoltage must be higher than battery voltage - The charger is defect and must be sent for inspection