

INSTRUCTION

TEMPERATURE RECORDER



DR - 400

1. CHARACTERS

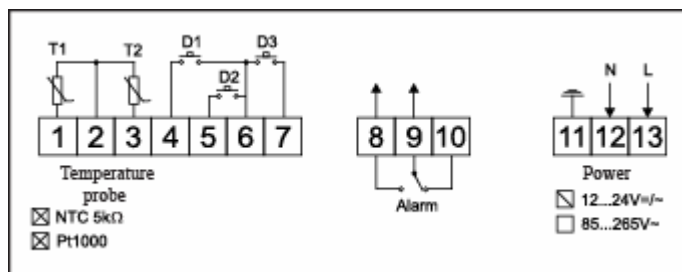
DR-400 temperature Recorder is widely use for the storage and transportation of the foodstuff, medicine, fresh and live goods. It is used in the industries which are acordant with HACCP System Certificate as well. Furthermore, it can be used in any place which need temperature supervision.

DR-400 has features as following: LCD with backlight display,two NTC probe(PT1000 optional), waterproof panel(IP65), large data recording capacity, high accuracy, easy to use and install, password protection, data reservation after power off etc.

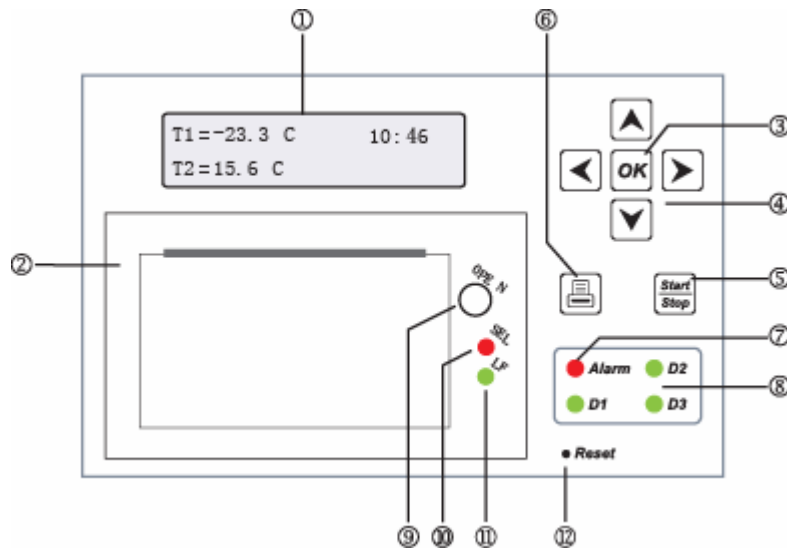
2. TECHNICAL PARAMETERS

Temperature range:	NTC: -40°C ~ +120°C PT1000: -200°C ~ +650°C
Dispalay:	LCD, two line, backlight adjustable
Input:	Two NTC probe (PT1000 optional) Three digital input(NO or NC)
Recording chanel:	Two (one optional) chanel
Accuracy:	NTC: +/-0.5°C (-40°C ~ +80°C); 1°C (other range) PT1000: +/-0.3°C (-50°C ~ +200°C); 1°C (other range)
Memory capacity:	13000 points(MAX)
Recording cycle:	1 min to 999 mins (adjustable)
Resolution:	0.1°C
Printing output:	Mini thermal printer, printer paper wide is 57mm, 40 characters each line
Relay output capacity:	SPDT 10A 250V
Waterproof:	IP65
Power:	12 ~ 24VDC (85-265Vac optional)
Operation temp.	Range: -20°C ~ +50°C

3. Wire diagram

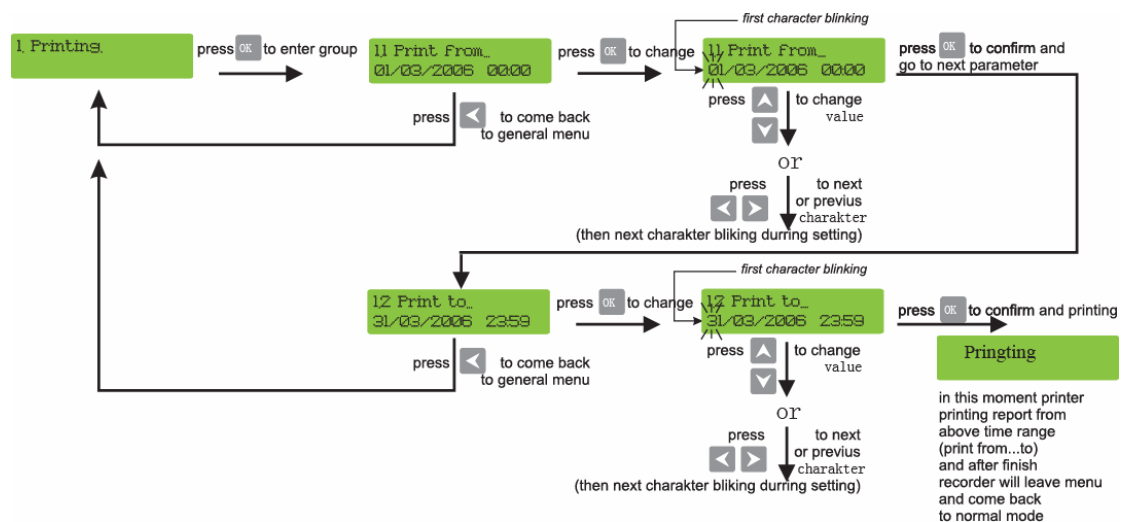


4. Panel Description:





- ① LCD display (with back light)
- ② Thermal Printer
- ③ Enter to the menu and confirm
- ④ Change the current parameter value, increase or decrease the value.
Or change to next parameter.
- ⑤ Loading/unloading(Delivery) function
- ⑥ start/stopping printing
- ⑦ Alarm indicator
- ⑧ Digital input indicator(Defrost, door and compressor)
- ⑨ Open the printer front panel to install the printing paper
- ⑩ Printer working status indicator
- ⑪ Power indicator.Green -- power on.
- ⑫ Reset button to clear all recorded data

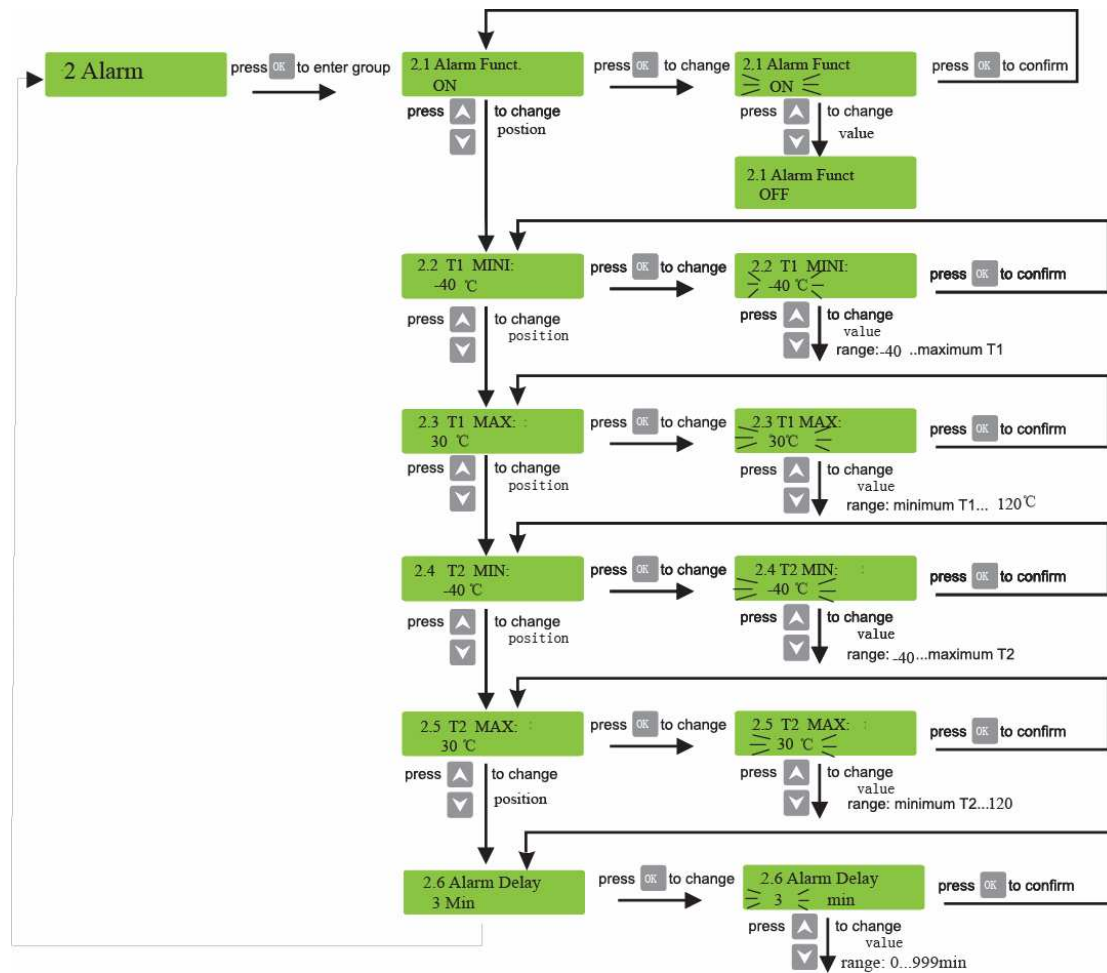
5. Printing Menu:



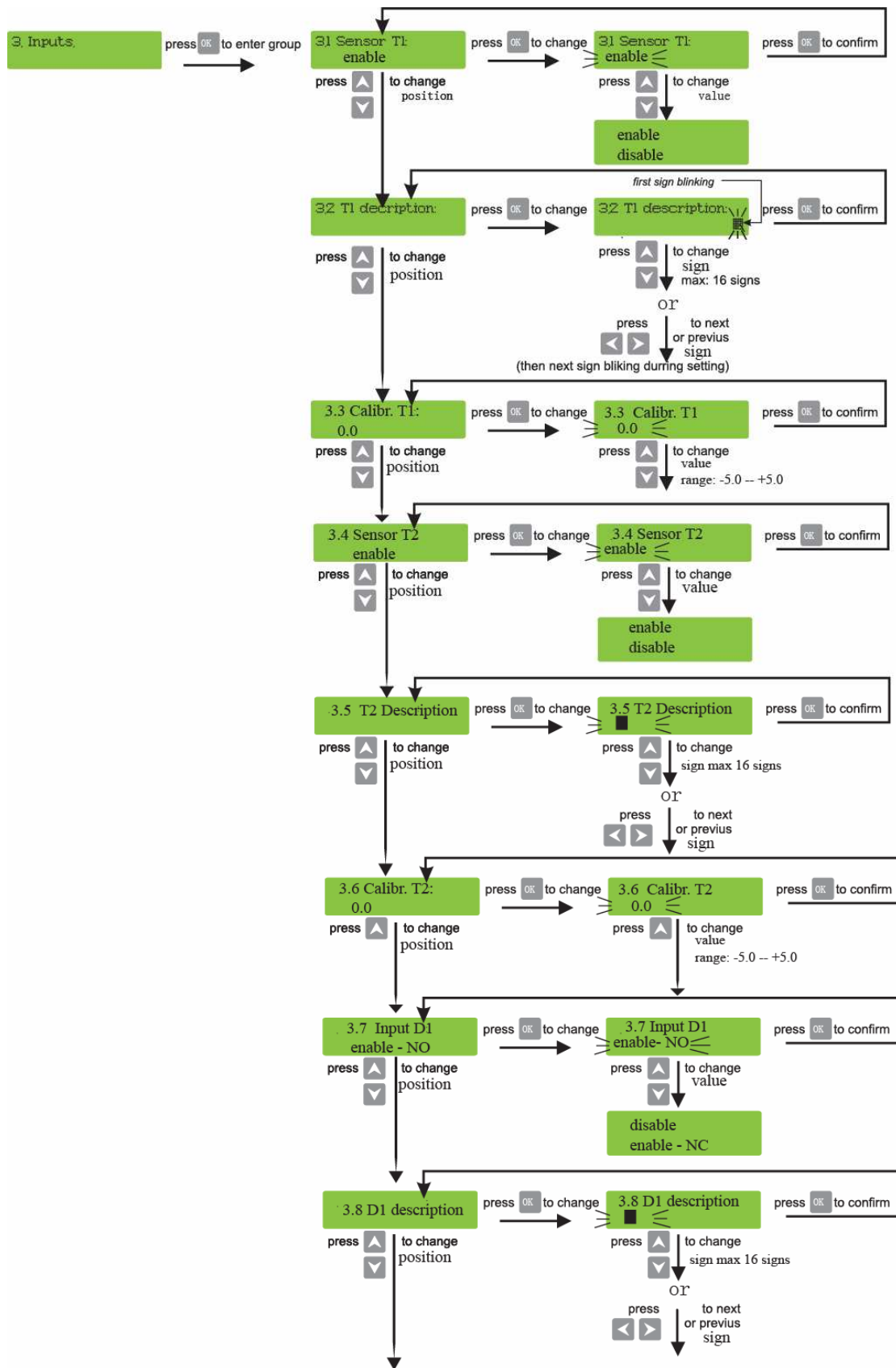
When user want to print report from some previous time range he need to set start(print from) and end (print to) of time range and putsh OK to print report. After finish printing recorder will return to normal mode.

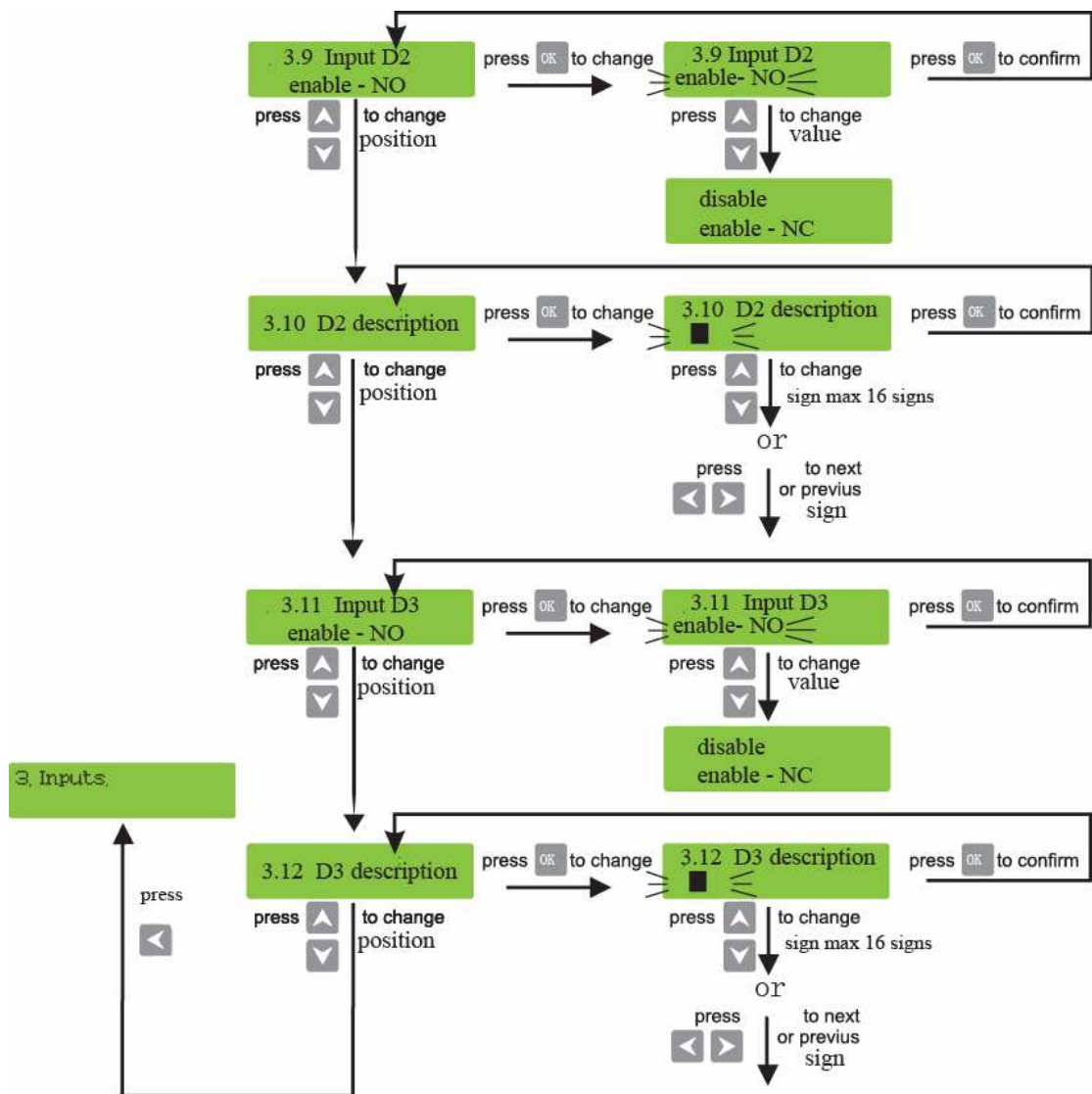
When user want to print report in any moment he may push  key and recorder printing from backwards all recordings from last month. He may stop printing in any moment by push one more time  then, after printing all head descriptions with Legnd, it stop printing report.

6. Alarm Menu:



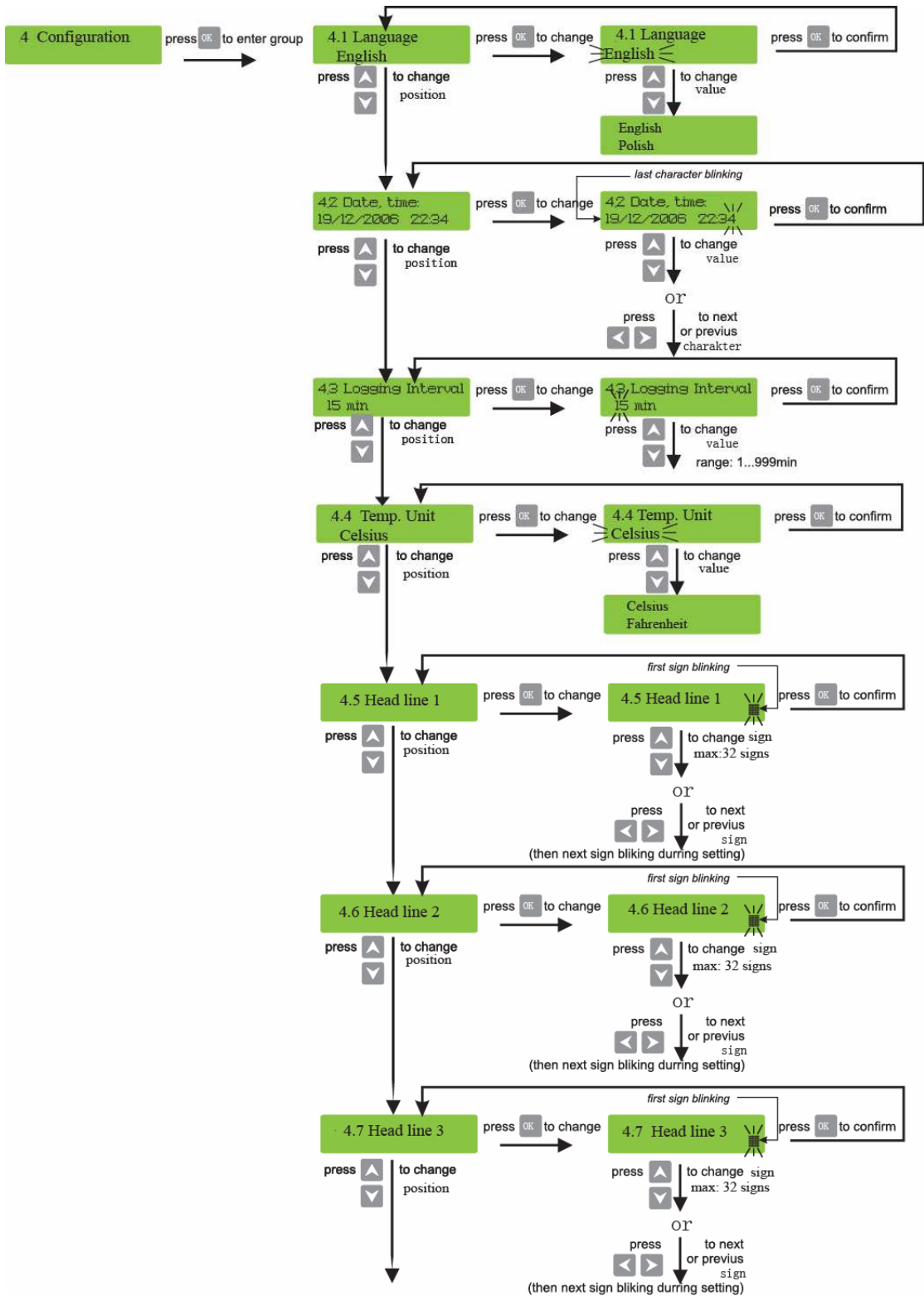
7. Input menu:

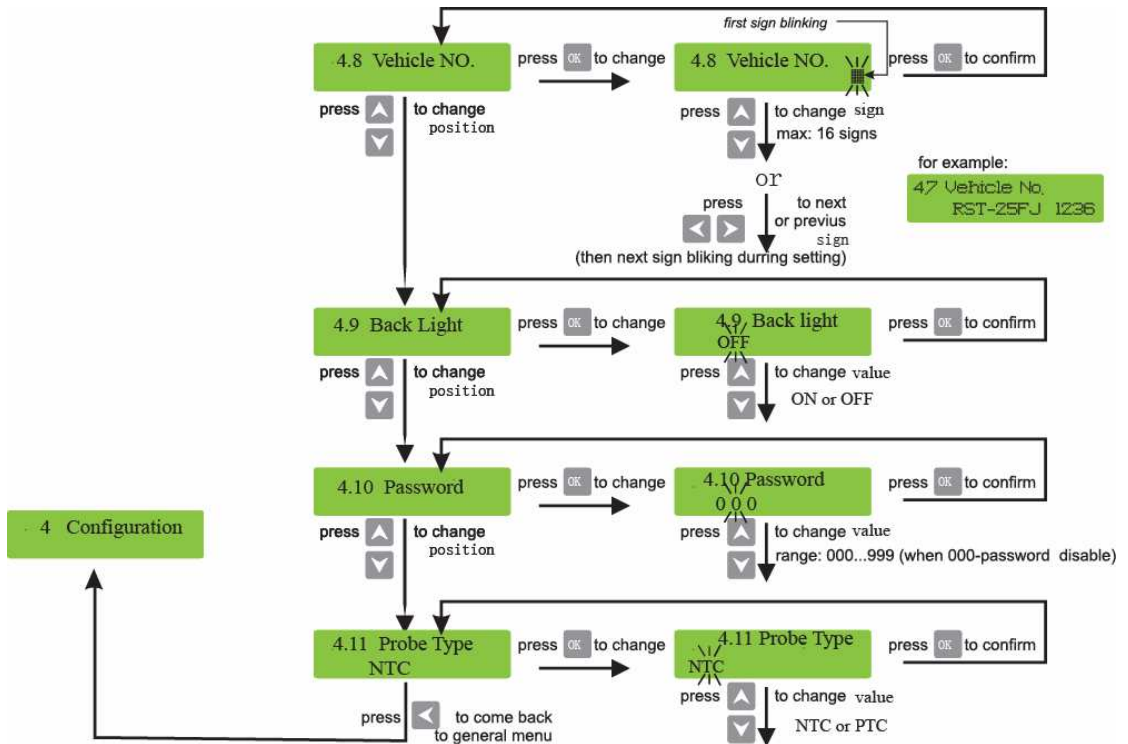




8. Configuration Menu

The user may set language, date, temperature unit, company name and address, vehicle no., password, probe type and backlight these information.





9. Printing Report:

Company Name and address → **John Smith Frigor Company**
3891 Oaks Blvd. Ca USA

Vehicle No. → **Vehicle No.: RST 25FJ NR001**

Inputs descriptions and alarm

Legend:
 T1 = front trailer D2 = defrost
 T2 = rear trailer D3 = compressor
 D1 = door Al = alarm

Date:	Time:	T1:	T2:	D1:	D2:	D3:	Al:
01/05/06	22:02	24.1	-9.8	█			
	22:17	22.9	-6.8	█			
	22:32	20.1	-3.2				
	22:47	18.5	-6.2				
	23:02	16.5	-10.2				
02/05/06	23:17	22.9	-6.8				
	23:32	20.1	EE				
	23:47	18.5	-6.2				
	00:02	10.5	-15.2				<
	00:17	8.5	-20.2				<

input activation (points to D1 bar)

probe error (points to EE)

alarm activation (< mean exceed max temp. > means exceed min temp. for T1 or T2 sensors)

place for signature

10.Installing Size

