

INSTRUCTION

TEMPERATURE DATALOGGER



DR-100 Introduction

DR-100 Temperature Recorder is widely used for the storage and transportation of foodstuff, medicine, fresh and live goods. It is used in the industries which are accordant with HACCP. Furthermore, it can be used in any place where need temperature supervising.

1. Features:

LCD with backlight display,

Single NTC probe

Waterproof panel (IP65),

Large data recording capacity, high accuracy, easy to use and install

Password protection,

Data reservation automatically after power off

2. Technical Parameters:

Temperature range: NTC: $-40^{\circ}\text{C} \sim +120^{\circ}\text{C}$

Display: LCD, two line, backlight adjustable

Input: Single NTC probe

One-digit input (NO or NC)

Recording channel: one channels

Accuracy: NTC: $\pm 0.5^{\circ}\text{C}$ ($-40^{\circ}\text{C} \sim +80^{\circ}\text{C}$); 1°C (other range)

Memory capacity: 8000 points (MAX)

Recording cycle: 1 Min. to 999 Min (adjustable)

Resolution: 0.1°C

Printing output: Mini thermal printer, printer paper wide is 57mm, 40 characters each line

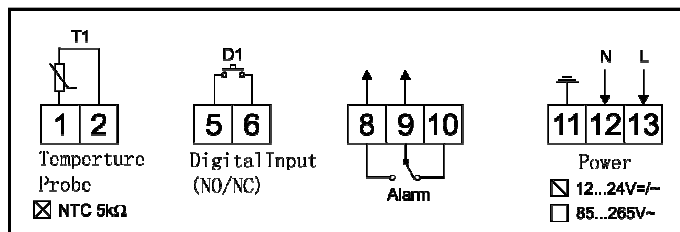
Relay output capacity: SPDT 10A /250VAC

Power supply: 12 .. 24V $\approx \pm 20\%$ (85-265Vac optional)

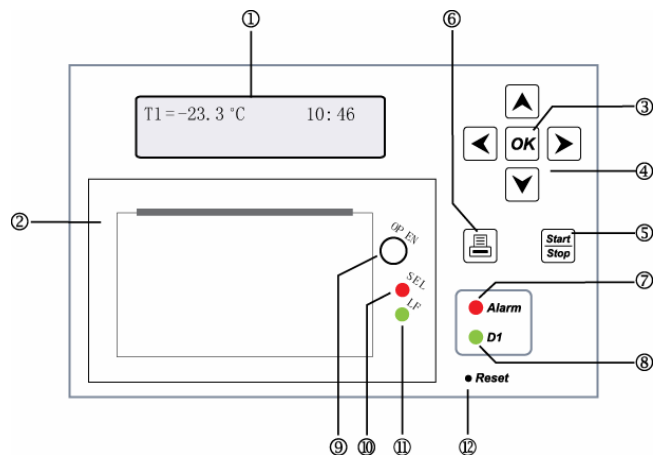
Power consumption: 50mA during registration, when printing to 3A

Operation temperature Range: $-20^{\circ}\text{C} \sim +50^{\circ}\text{C}$

3. Wire diagram

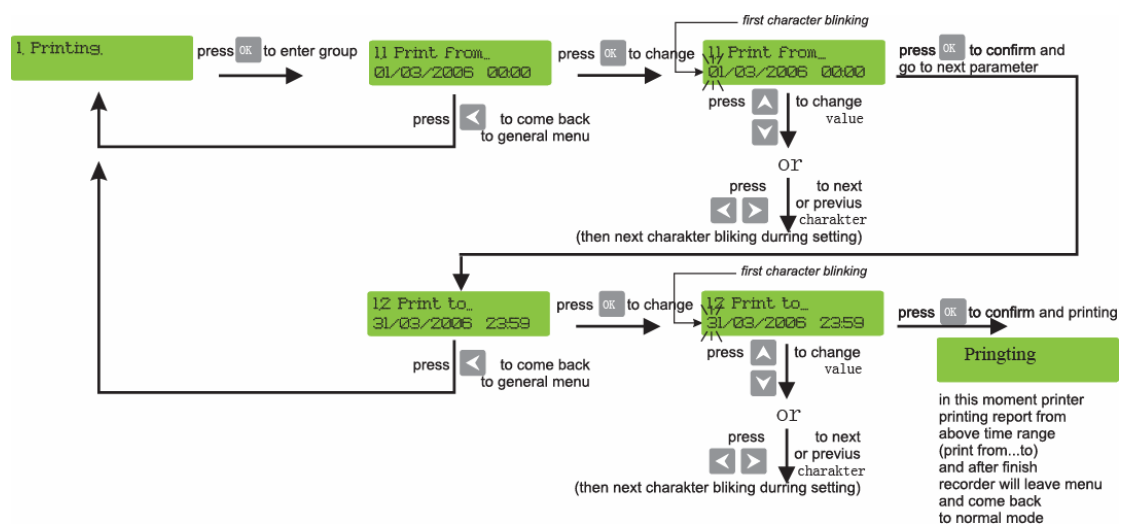


4. Panel Description:





- 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 paper indicator. Red – there's paper inside.
- ⑪ Power indicator. Green -- power on.
- ⑫ Reset button to clear all recorded data

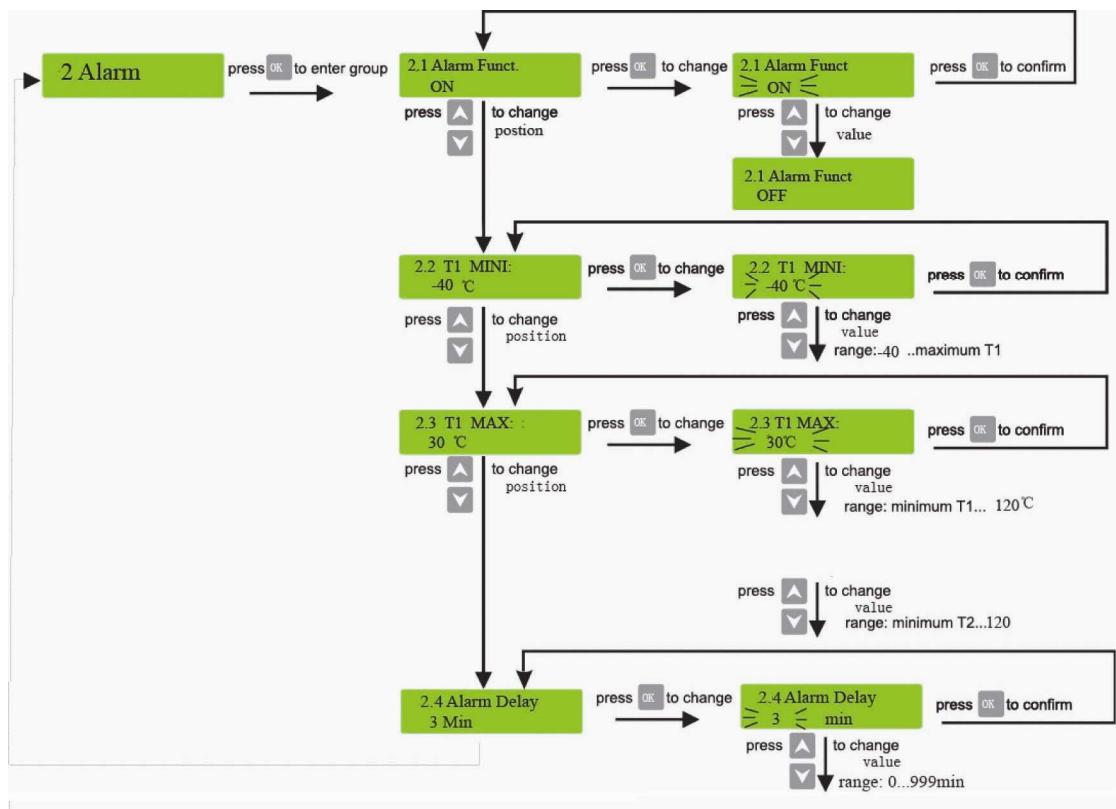
5. Printing Menu:



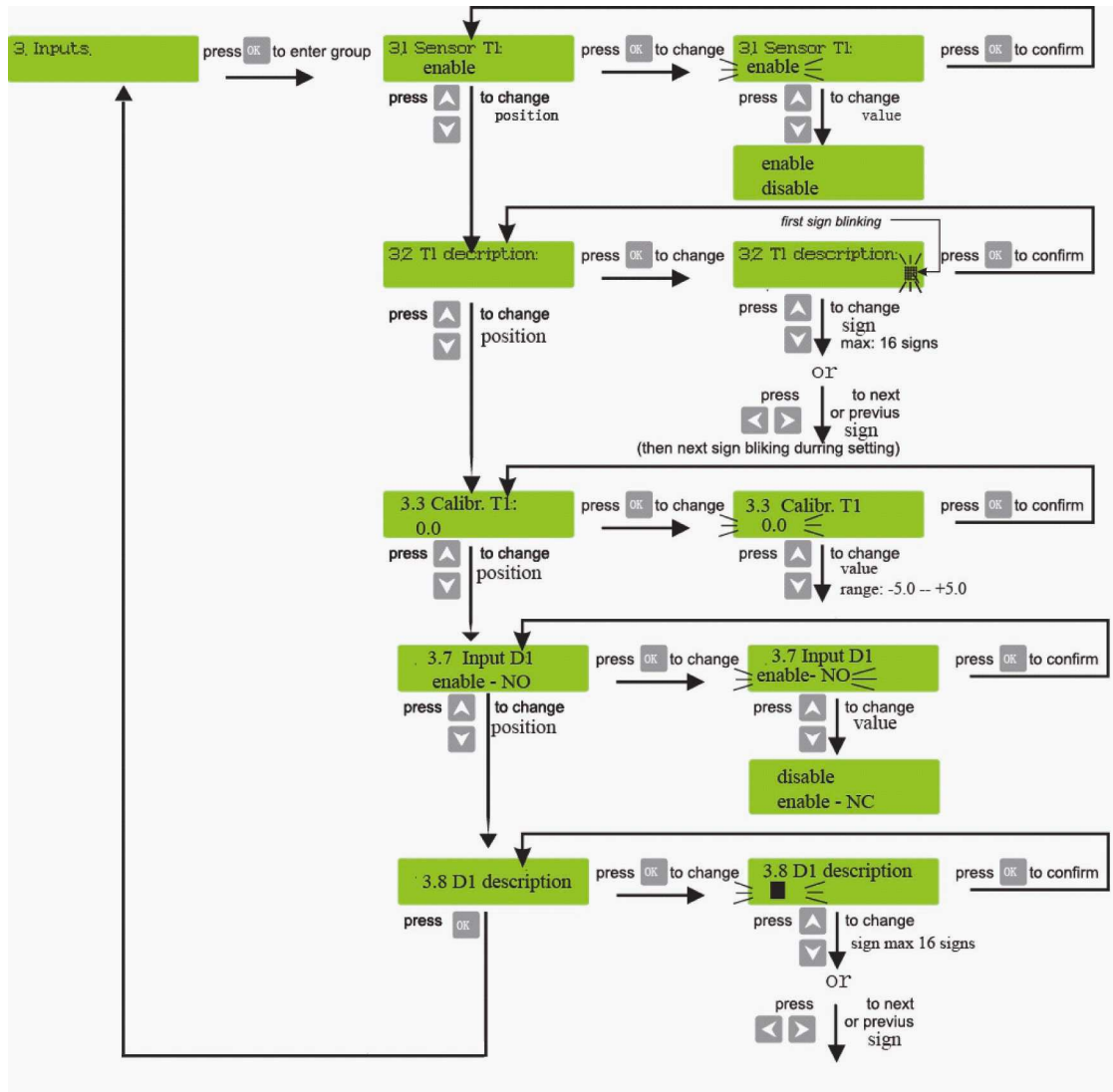
When user want to print report from some previous time range he need to set start(print from) and end (print to) of time range and putsh OK to print report. After finish printing recorder will return to normal mode.

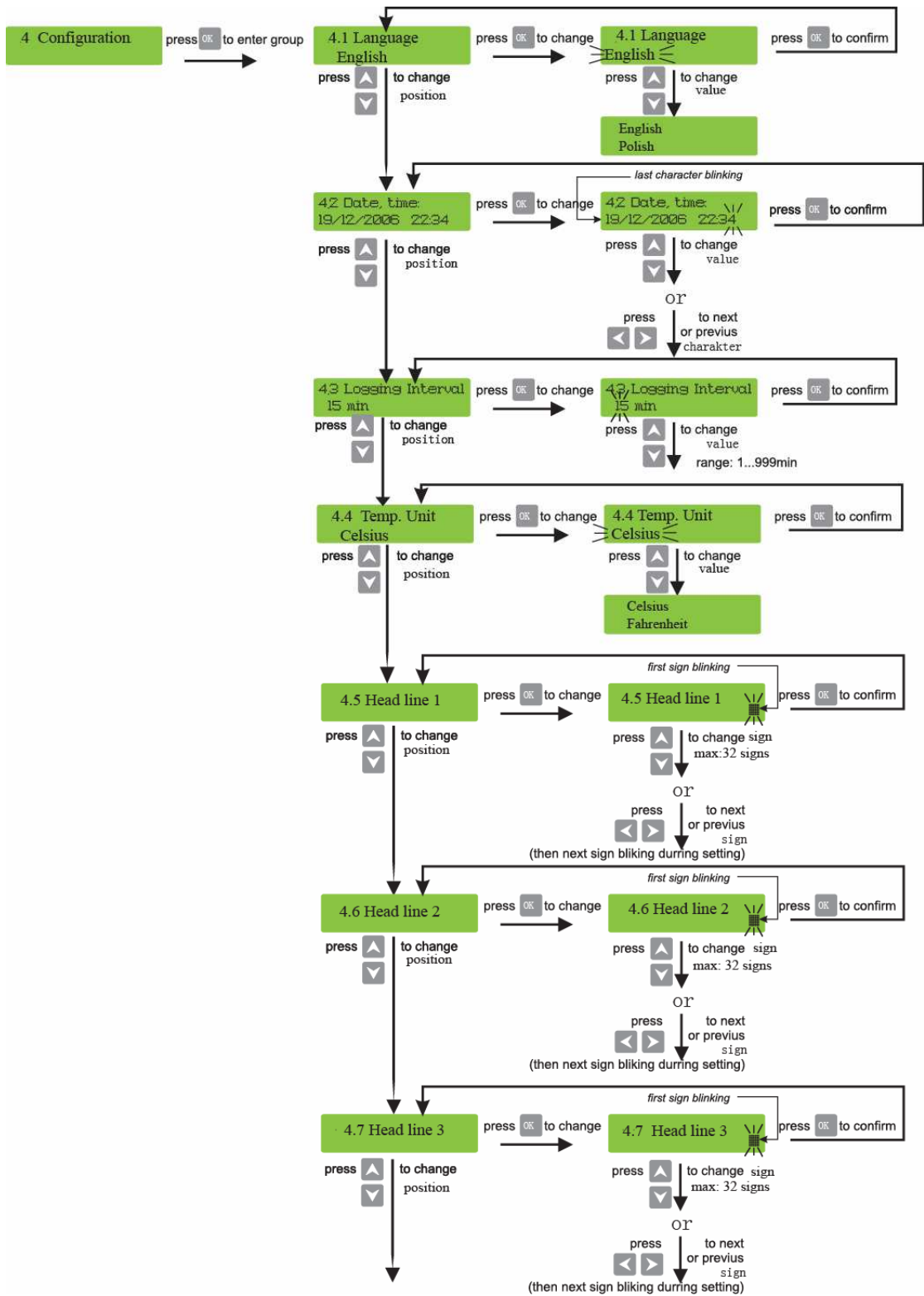
When user want to print report in any moment he may push  key and recorder printing from backwards all recordings from last month. He may stop printing in any moment by push one more time  then, after printing all head descriptions with Legnd, it stop printing report.

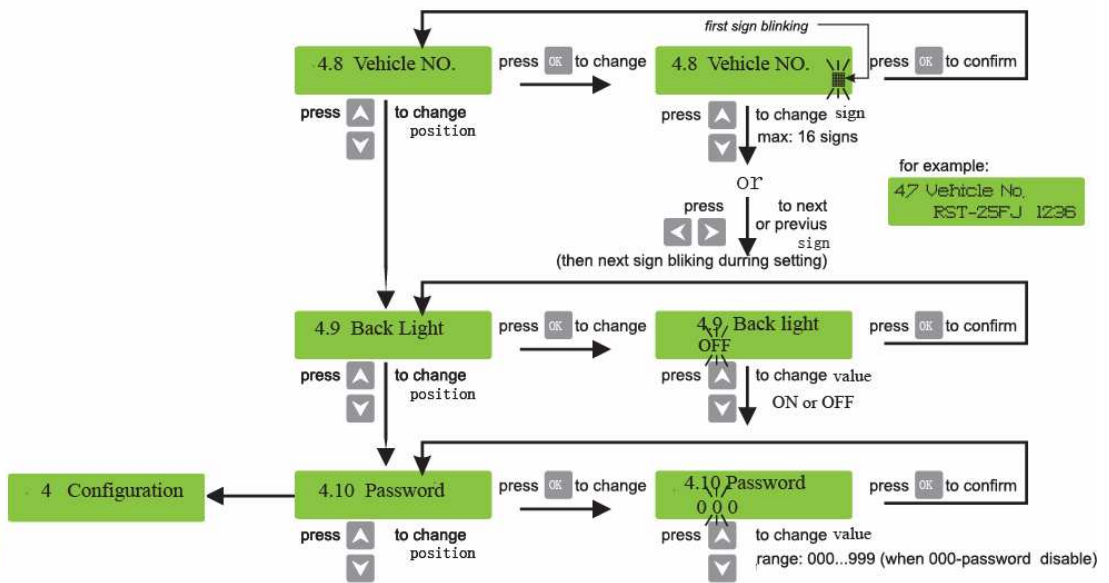
6. Alarm Menu:



7. Input menu:







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 = rear trailer D1 = door
AI = alarm**

| Date: | Time: | T1: | D1: | AI: |
|----------|-------|-------|-----|-----|
| 01/05/06 | 22:02 | -9.8 | █ | |
| | 22:17 | -6.8 | █ | |
| | 22:32 | -3.2 | | |
| | 22:47 | -6.2 | | |
| | 23:02 | -10.2 | | |
| | 23:17 | -6.8 | | |
| | 23:32 | EE | | |
| | 23:47 | -6.2 | █ | |
| 02/05/06 | 00:02 | -15.2 | < | |
| | 00:17 | -20.2 | < | |

Signature: **place for signature**

Annotations:
 - input activation: points to the first '█' in the D1 column.
 - probe error: points to the 'EE' value in the AI column.
 - alarm activation: points to the second '█' in the D1 column.
 - (< mean exceed max temp. > means exceed min temp. for T1 or T2 sensors)

Installing Size

