

GLT622 series Smart Console

USER MANUAL

FEB 2015 V3.1

Introduction

Welcome to choose **Automatic Tank Gauging (ATGs) System** of our company. You are strongly recommended to read this manual before installation.

The installation and maintenance for the products must be done by the qualified technicians.

Safety instruction

The ATGs system is installed in gas station and oil depot, please read safety instructions for explosion protection.

Power must not be switched on before installation & maintenance.

The products are prohibited to be installed in explosion proof area over its own Ex-proof grade.

The console and printer must be installed in safe area, such as office.



Safety warning

The tank must have earth busbar, the earth must be safe and reliable.

ATGs system must share the same earthing with tank.

Unpack and check

Please check all the materials according to the list. If anything missed, please contact the local representative or distributor directly.

Quality Track Card

After installation, please post the Quality Track Card to Service Department of GAMICOS for fast and right service. Thank you very much!

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1. Summary

1.1 System summary

This automatic tank gauging system is mainly consists of smart console and magnetostrictive probe. It monitoring oil product level, water level, temperature in real time, and display inventory data, alarm information and leak detection information, and automatically generate history report for inquiry in future.

International graphic touch screen and user-friendly icon, makes it is easy for new user.

1.2 System structure

Smart console (please see below) is a powerful operation platform, the data processing and record center, communicate with probe by RS485, and also offer safety and reliable power to probe.

It consists of TFT colorful touch screen, advanced process CPU, safety barriers and power module. Display and operating screen is 8" size, 800*600 resolutions. The CPU which composed of the embedded processor and peripheral circuit is the control center of the whole tank gauges system. The safety barrier is intrinsic safe parts, offer safety power to probe.

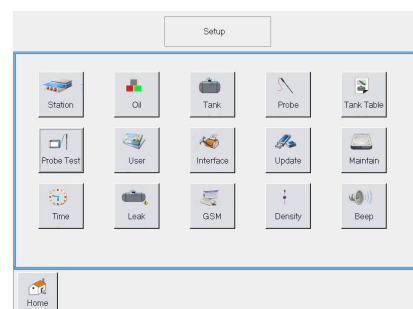
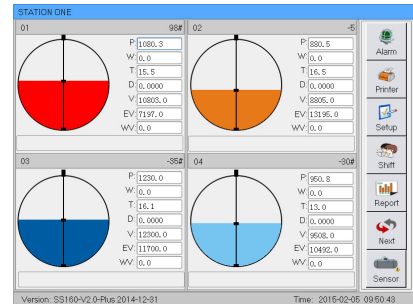


GLT622 Smart Console

1.3 Features and Technical parameters

System feature

- International graphic touch screen
- Real time monitoring oil product level, water level, density, volume and temperature
- Monitor up to 12 tank at one compact unit (Standard monitor up to 6 tanks)
- Automatic alarm and release alarm
- Automatic generate delivery report, inventory report, alarm report and leak detection report
- Support generate tank volume chart automatically and calibration
- Support TCP/IP
- Support leak detection test
- Support external GSM message module (Option)
- Support import & export tank volume chart, very convenient
- Level 3 security code switching
- Language optional among English (default), Spanish, Portuguese
- Open communication protocol, can be connected with the central control system of mainstream fuel dispensers, totally satisfy



Tank No	Oil Type	Begin.H	Begin.V	End.H	End.V	Add.V	Compensate.V	
1	98#	910.2	1300.6	615.5	9504.4	2113.7	2113.2	20
2	98#	649.6	3749.6	803.9	4882	1082.4	1081.4	20
8	2	-5	615.1	2783.9	740.8	4397.6	1613.7	1852.7

Technical parameters

- Power: AC220V, 0.2A, 50/60HZ
- Working temperature: -20 to 60 centigrade
- Install location: safety place
- Display resolution: 800x600
- Display size: 8" full color LCD
- 3 RS232 communication serial ports: connects to printer, computer, Modem or GSM module
- 1 RS485 communication serial port: connects

2. Installation

2.1 Installation of smart console

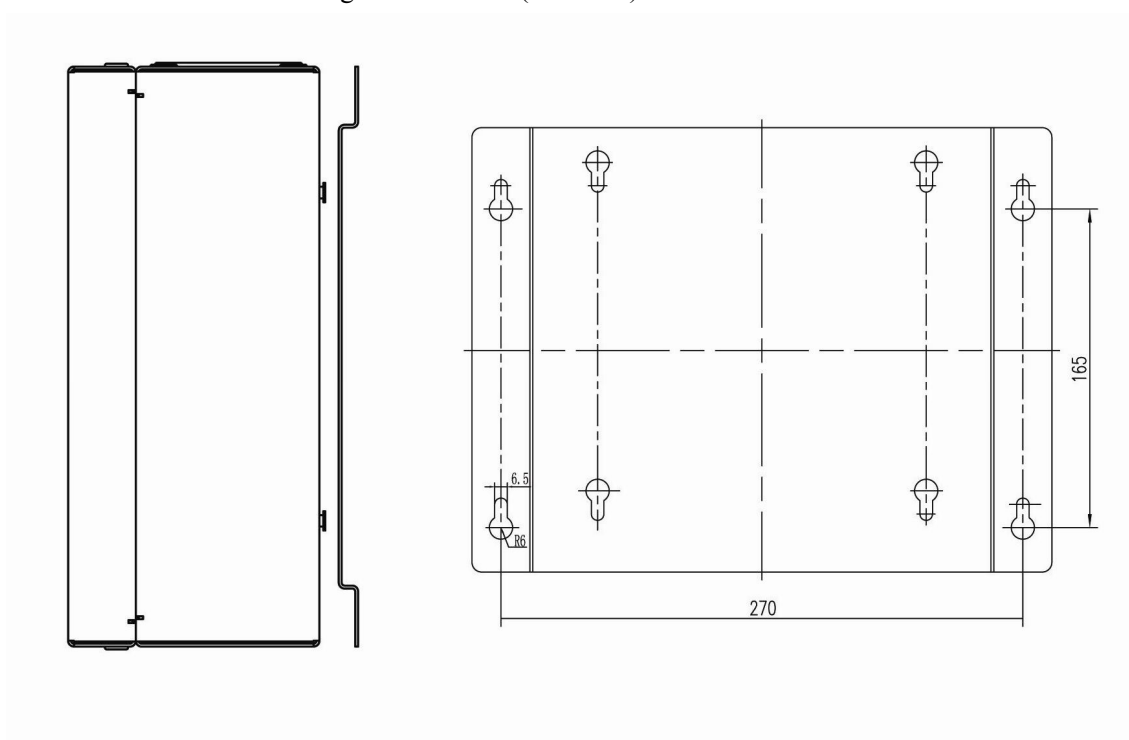
- ① Look for convenient place on the wall in office, to install smart console.
- ② Install the fixed plate of console tightly on the wall by expansion screw
- ③ Hang console on the fixed plate reliably
- ④ The PE of console should be connected to earth reliably with more than 6 mm² multi-core copper soft cables
- ⑤ Power supply AC220V



Safety warning

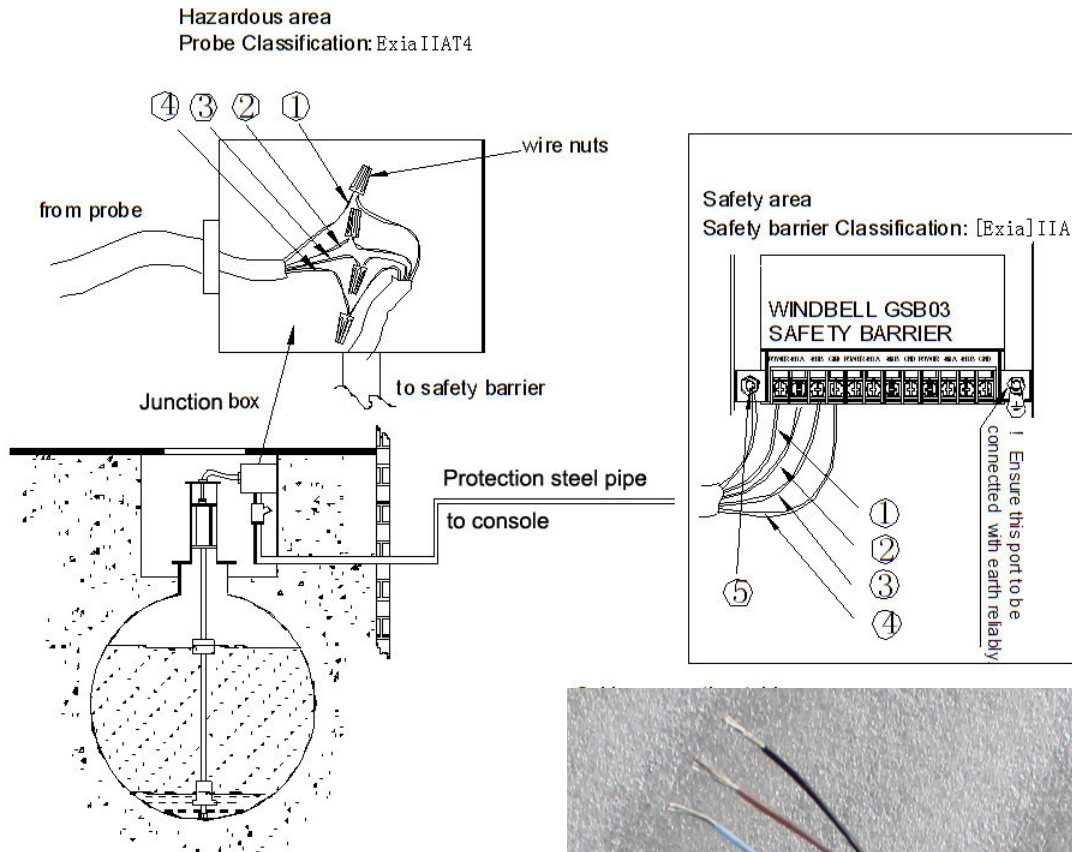
Console, printer must be installed in Non-Hazardous zone!

Installation dimension drawing of console (Unit:mm)



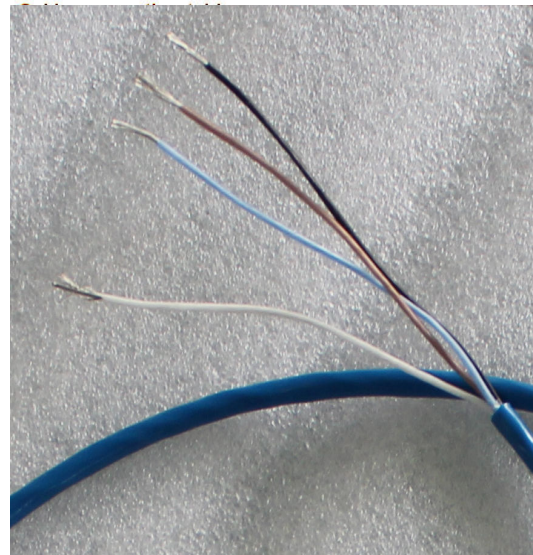
2.2 Electrical wiring diagram of ATG system

The cable from probe must be correctly coupled into relevant safety barrier inside console. The shielding of cable must be coupled into PE of safety barrier. The safety barrier also must be coupled into earth reliably. As fig. below.



Cable connection table

No.	Power wires	Port of safety barrier
①	Blue wire	Power (Power +)
②	Brown wire	485A
③	White wire	485B
④	Black wire	GND (Power-)
⑤	Shielded wire	



Safety warning

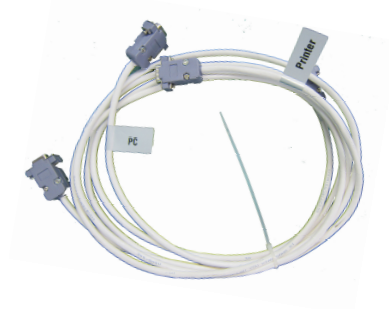
- Earth terminal of safety barrier should be connected to ground reliably by more than 6 mm² multi-core copper cable.
- Forbid turning on power for the system before correct couple with cables.
- ATGs system must share the same earth with tank.

2.3 Connection between console and PC software

When console need to be connected with PC management system and printer, please take PC line and printer lines) which both RS232 serial lines) from console packing box, couple them into relevant port.



Along with console, we prepare two RS232 cables for communication, one for site computer, another one for external printer.



Safety warning

Please carefully check every part whether it is ok after installation. After confirmed Ok, power on system.

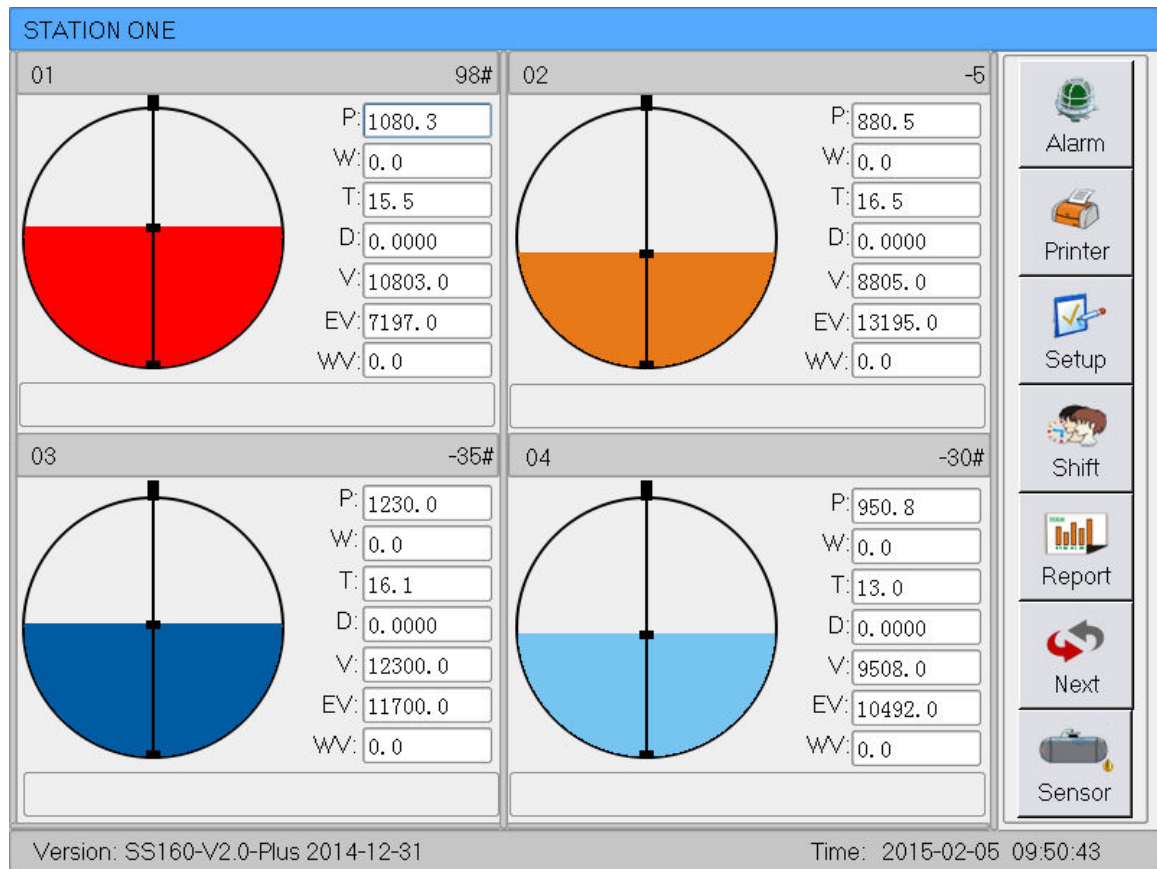
2.4 Installation accessories



Name	Qty
Power cable	1
Communication cable RS232	2
Fixed plate	1
Expansion bolt	4
PG9	6
Spare fuse	1

3. Operation

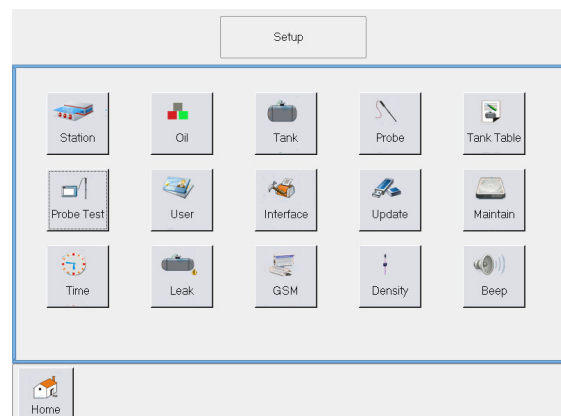
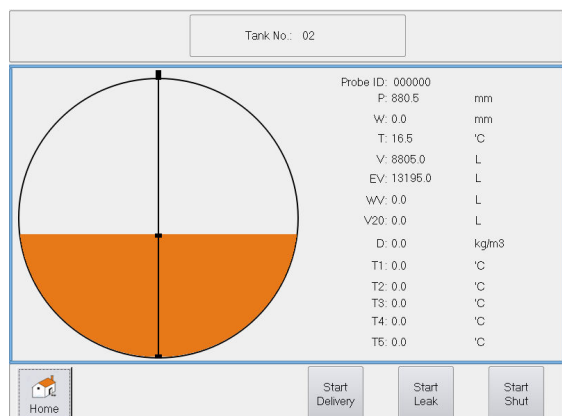
Monitoring screen (Home page)



This monitor screen will be automatically shown, after power on.

- ① If initialized operation, the tank information is blank, please click “Setup” button to set up System (detail operation please see relevant introduction)
- ② If need inquire detail information of each tank, please directly click the graphic of tank.

If there no operation on screen for about 5 minutes, console will automatically enter into screen saver state, black screen but program working from time to time. The screen will light again if touched.



3.1 Release alarm



When alarm beep, for example, Water high (W H), Product low low(P LL), Product low (P L), Product high (P H), Product high high (P HH), Temperature high (T H), Temperature low (T L), click this to release alarm, then beep stop.

3.2 Printer



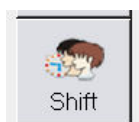
Click this button at homepage, will print the current data of available tanks

3.3 Setup



When need to set up system information or amend configuration, please click this button.

3.4 Shift



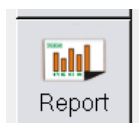
Click this button when shift, there will show a dialog box “Shift Confirm”, choose” Yes” to confirm shift, system will create a shift report automatically.

3.5 Next (Next page)



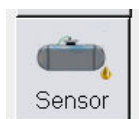
There are 4 tanks information displayed on screen, if inquire tanks information more than 4, like tank 5 an 6, just click this button to view.

3.6 Reports



When need to inquire reports information, click this button to enter into report page, and choose relevant report to see detail data.


3.7 Leak sensor

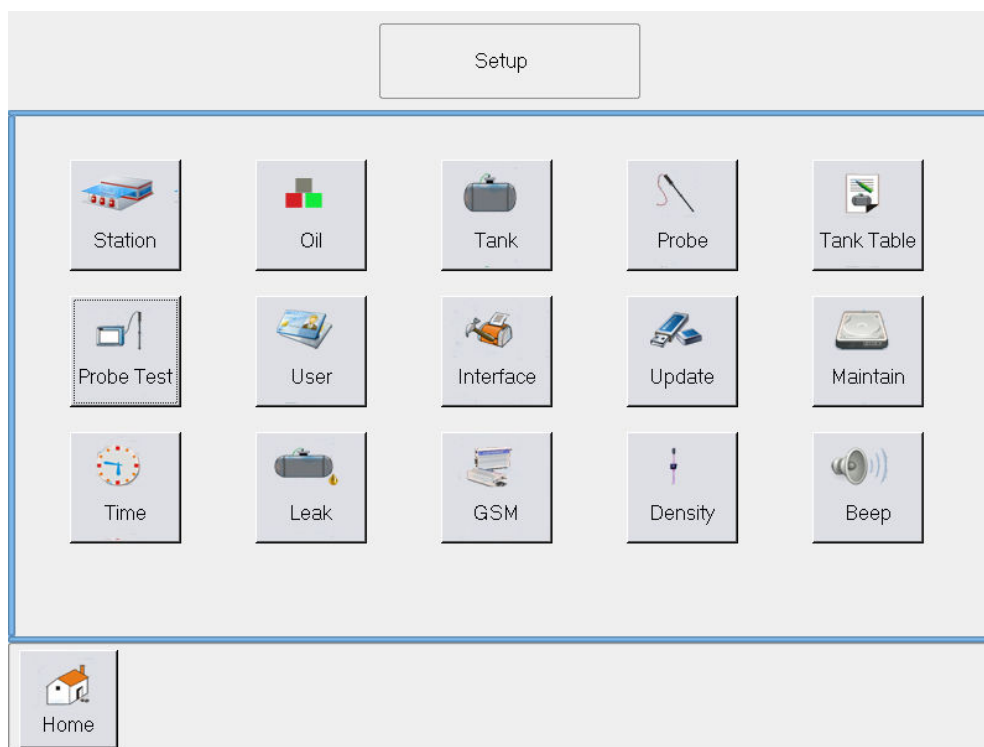


When need to inquire if any leakage of tank, click this button to see leak detection screen.

4. System Setup


1.1 System configure

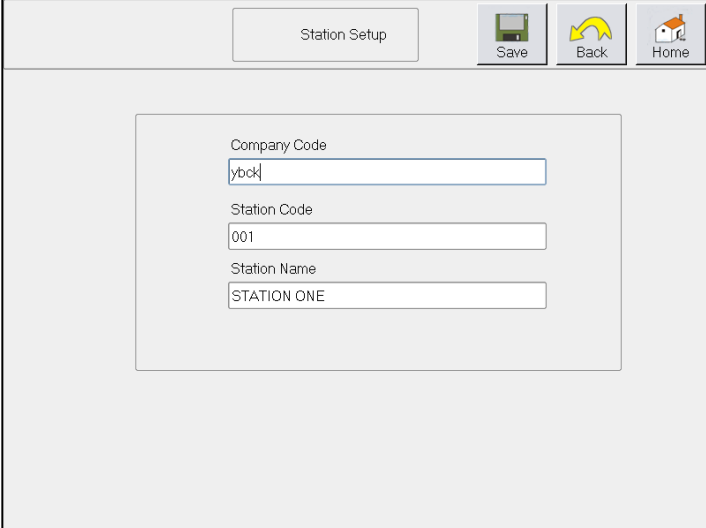
Click  at monitor screen, enter into “System configure” screen.



- Station – click to set the information of petrol station
- Oil – click to set the information of oil product type and distinguish color
- Tank – click to set tanks information like height etc
- Probe – click to set probe ID and alarm value
- Tank table – click to input tank volume table or generate a new table base on tank data
- Probe test – click to test the communication between probe and console
- User – click to set user name and password
- Interface – click to set interface parameter
- Update – click to upgrade console program
- Maintain – click to maintenance console program periodically
- Time – click to set console clock
- Leak - click to set leak detection information
- GSM – click to set GSM configuration
- Density – click to set density measurement information
- Beep – click to set beep alarm information

4.2 Station configure

Click  to enter into petrol station configure screen



Station Setup

Save Back Home

Company Code
ybck

Station Code
001


Station Name
STATION ONE

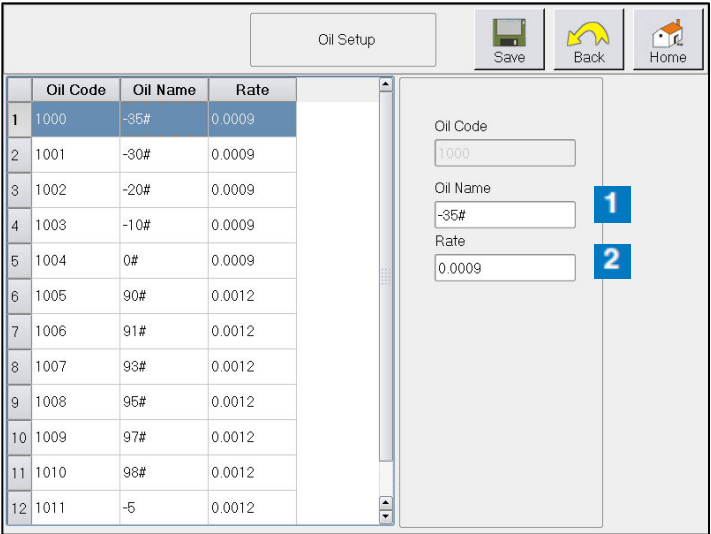
Introduction

- Input company code
- Input petrol station serial code
- Input petrol station name
- Click “Save” to save above information

Note: the company code and petrol station serial code are used for transmit data to head-office software

4.3 Oil configure

Click  to set oil product type and expansion rate.



Oil Setup

Save Back Home

	Oil Code	Oil Name	Rate
1	1000	-35#	0.0009
2	1001	-30#	0.0009
3	1002	-20#	0.0009
4	1003	-10#	0.0009
5	1004	0#	0.0009
6	1005	90#	0.0012
7	1006	91#	0.0012
8	1007	93#	0.0012
9	1008	95#	0.0012
10	1009	97#	0.0012
11	1010	98#	0.0012
12	1011	-5	0.0012

Oil Code
1000


Oil Name
-35# 1

Rate
0.0009 2

Introduction

- Click **1** to choose oil name
- Click **2** to input expansion factor
- Click “Save” to save above information

4.4 Tank configure

Click  to set up tank number, height and maximum capacity


Tank Setup					Delete	Save	Back	Home
Tank No	Diameter	Volume	Flag		Up	Down	Status	Oil Type
1	2000	18000	Valid		Up	Down	Valid	98#
2	2000	22000	Valid				Tank No. 1	Oil Color
3	2400	24000	Valid				Diameter(mm) 2000	Auto Leak NO
4	2000	20000	Valid				Volume(L) 18000	Duration 2H
5	2000	20000	Invalid				Level 0.38L/H	Frequency Every Day
6	2000	20000	Invalid				Leak Time 13 Hou 0 Min 1 Sec	Water Flag Include
7	2000	20000	Valid					
8	2000	20000	Valid					
9	2000	20000	Valid					
10	2000	20000	Invalid					
11	2000	20000	Invalid					
12	0	0	Invalid					

Introduction

- Choose “Valid” or “Invalid” at status, to confirm the tank selected if valid or not
- Choose right oil type
- Choose the tank’s serial number in petrol station
- Choose color to distinguish different oil type
- Input tank height
- Choose “Yes” or “No” to start or stop automatic leak detection function
- Input maximum capacity of tank
- Choose desired duration of leak detection test
- Choose leak detection test grade
- Input the starting time of automatic leak detection test
- Choose “Included” or not at Water Flag which mean cross volume include water or not.
- Please do not forget to click save after setup.

When you want to delete one tank, firstly click tank at left table, and then click “Delete”

4.5 Probe configure

Click  to set probe ID, alarm values and oil offset, water offset.

Introduction

- Input tank serial number, please refer to the tank configure
- Input relevant alarm values at O HH, O H, O LL, O L, Temp H, Temp L, W H, W HH
 OHH alarm indicates that the oil product is likely to overflow, stop filling right now.
 OH alarm indicates that the oil product already arrive the first alarm, keep your eyes on filling.
 OL alarm indicates that the fuel storage inside tank is not enough, please make purchase order

OLL alarm indicates that there not fuel inside the tank, please close the business of this tank

W HH alarm indicates to the manager of petrol station make plan to remove the water out of tank


- Input probe ID, please ensure the right ID, each probe have sole ID which same as the manufacturing code on probe nameplate, please record before install.
- If need to calibrate oil level and water level, please measure the oil level and water level by dip stick, input the measured value in O value and W value, console program will automatically calculate the result and display on O offset and W offset. Please note that all the unit is mm
- Please do not forget to save above information after input.

If you want to delete one of the probes, click the relevant tank at left table, click “Delete” button is ok.

TankNo	Probe ID	O Offset	W Offset
1	123456	0	0
2	213456	0	0
3	312456	0	0
4	0	0	0
5	110814	0	0
6	110814	0	0
7	111117	0	0
8	111118	0	0
9	111119	0	0
10	111120	0	0
11	111121	0	0
12	123452	0	0

4.6 Tank table



Click  to input tank volume table or input tank data to generate a new table.

Search tank volume table:

- Click tank number, and then click search button at top line, user can freely look up the relevant tank volume table Up and Down. Click delete if need to delete this table.
- If you want to amend one point of tank table, choose this point data at table, click “Update” to save the new data, click “Delete” to delete this point data.

Tank No.	Height	Volume
1	0	0
2	10	8.7
3	20	24.7
4	30	45.2
5	40	69.4
6	50	96.7
7	60	126.8
8	70	159.4
9	80	194.3
10	90	231.2
11	100	270.1
12	110	310.9

If the tanks in petrol station have same specification, input one tank table, click “Copy to” and choose the desired tank number, so to easily and fast input another one tank volume table.

Input tank volume table

- Click the table, choose one line, and then input the height and relevant volume data.
- After input all the data, click “Save” to save tank volume table.
See the picture at right.

Simulate tank volume table

- Choose one tank by the tank No., and choose the Tank type
- Input tank’s data like diameter, length, head 1 and head 2
- Click “Gen” button to calculate and simulate the whole tank size, and automatically generate a new tank volume table, please “Save” after finish.

Please see the right picture.


Import & Export tank volume table:

- Choose the tank by Tank No., click “Search” to display this tank’s volume table. Insert Flash disk on the USB port of console.
- Click “Import” button to transmit tank volume table from flash disk to console.
- Click “Export” button to Download the tank volume table from console to flash disk.
- Click Save after finish.

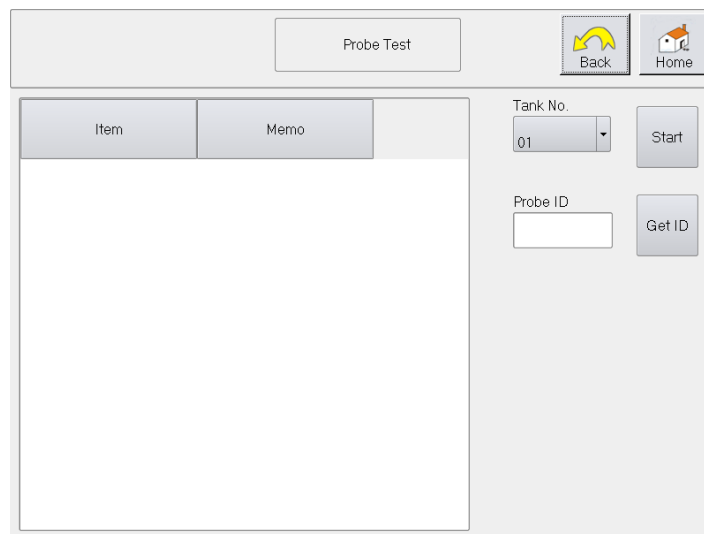
Please see the picture at right.

	Tank No.	Height	Volume
1	1	0	0
2	1	10	8.7
3	1	20	24.7
4	1	30	45.2
5	1	40	69.4
6	1	50	96.7
7	1	60	126.8
8	1	70	159.4
9	1	80	194.3
10	1	90	231.2
11	1	100	270.1
12	1	110	310.2


4.7 Probe test

Click  to test the communication between console and probe.

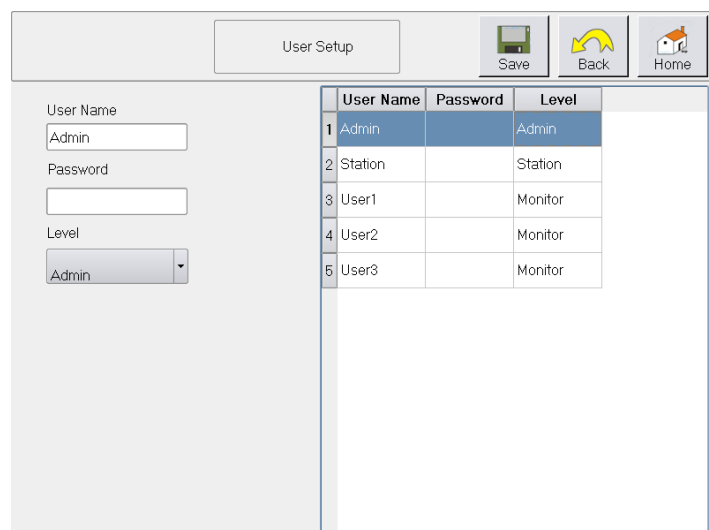
- Click Tank No. to choose relevant tank, click start button to check the communication. If probe data displayed on the left table, it is mean the communication is OK.
- Connects one probe, and lick Get ID button, Probe ID of this probe will be displayed on screen.



4.8 User configure


Click  to set user's name and password to different authorization.

- Set User name
- Set password
- Choose different authorization for different users, and click “save” button after setup.



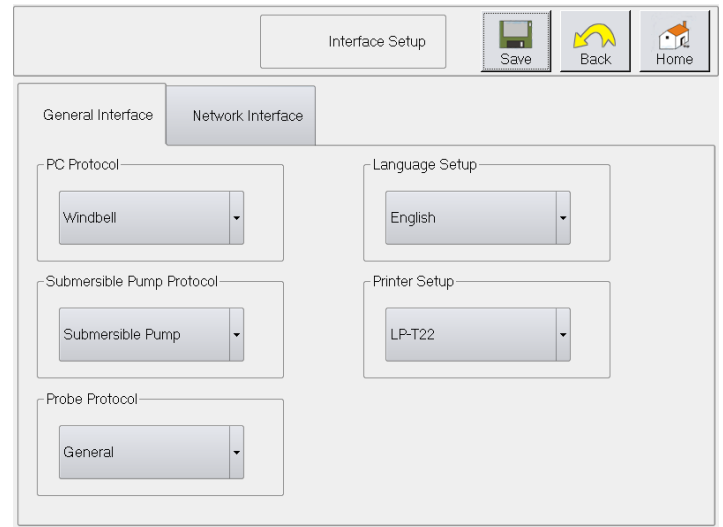
	User Name	Password	Level
1	Admin		Admin
2	Station		Station
3	User1		Monitor
4	User2		Monitor
5	User3		Monitor

4.9 Interface configure

Click  to set interface information

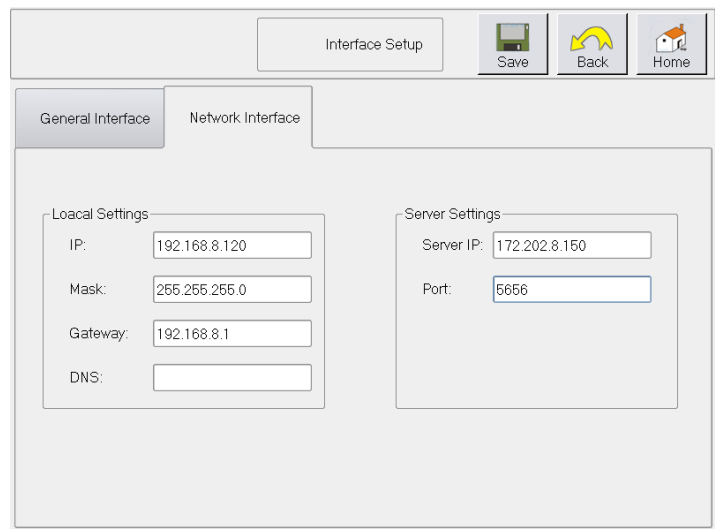
- Choose suitable protocol at “PC Protocol”
- Choose Language at “Language setup”
- Choose Submersible pump protocol if connects external submersible intelligent control box
- Choose printer model connected at “Printer Setup”
- Choose probe protocol for communication, Default is “General”

Please click “Save” button to save above information




Click “Interface setup” to set for network connection

- Input IP address at Local Settings
- Input Mask data at Local Settings
- Input Gateway data at Local Settings
- Input Server IP at Server Settings
- Input port value at Server Settings
- Click Save after finish.

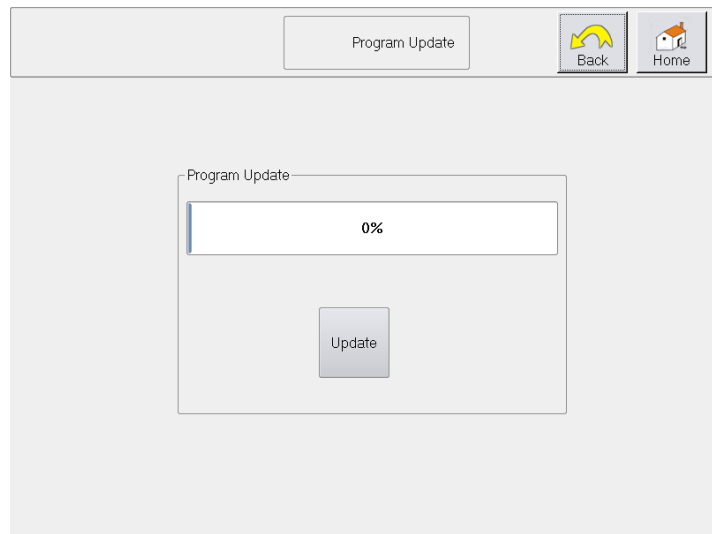


Note: this function is for transmit data by network.


4.10 Program update

Click  to upgrade program to latest version.

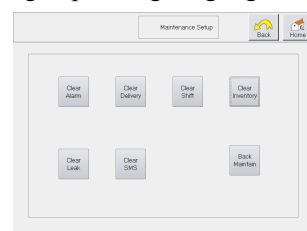
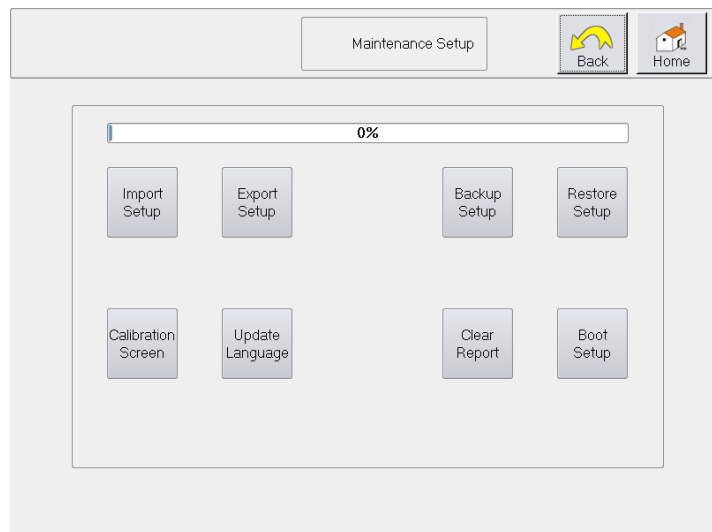
- Copy the latest version and save at the root directory of flash disk, insert flash disk at USB port
- Click “Update” to starting, waiting for the progress bar showing 100%, and finish, Please ensure to restart the console.



4.11 System maintenance


Click  to maintain system periodically.

- Insert flash disk to USB port, click “ Import Setup” will import the console configuration from flash disk to console; click “Export Setup” will export console configuration into flash disk.
- Insert flash disk to USB port, Click “Backup Setup” to back up console data into flash disk; click “ Restore Setup” will recover the backup data into console.
- Click “Calibration Screen”, and then restart console. When the console work again, will automatically start screen calibrate progress, please click the 5 calibration points at screen as guide, and restart again console, calibration finish.
- Insert flash disk to USB port, Click “Update Language” can change operating language
- Click “Clear Report” to clear the reports you want to delete, see this picture at right.
- Click “ Boot Setup” to enter into password setup screen




- Input password at “Password”, this password is for start console, screensaver, and search reports.
- Choose “Yes” at “Boot Password”, it is mean user should input this password when starting console
- Choose “Yes” at “Screen protection Password”, it is mean user should input this password if he want see tanks status when console is on Screensaver time.
- Choose “Yes” at “View report Password”, it is mean user should input this password when he want to search reports.
- Choose Screensaver time at “The Screen delay”.
- Please ensure Save above setup information after finish.

4.12 Time configure

Click  to set console clock.

Input the right value of current time at Year, Month, Date, Hour, Minute, Second, and click save after finish.


4.13 Leak sensor configure

Click  to setup leak sensor information

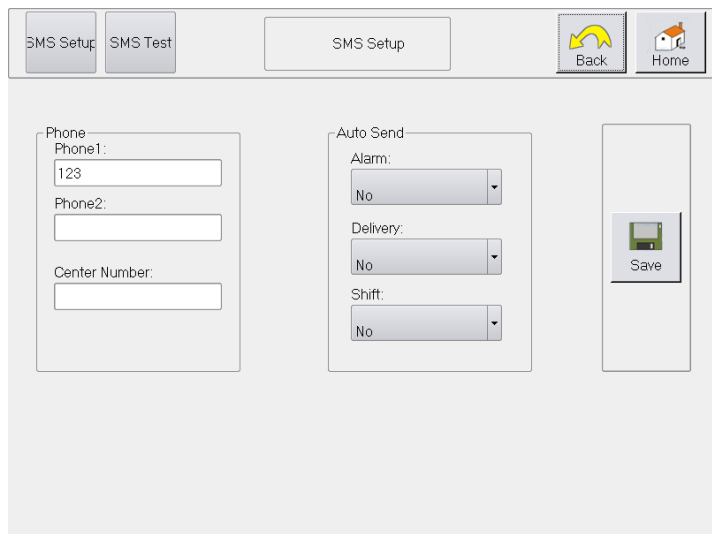
- Input Serial number of sensor at “Sensor No.”
- Choose Sensor type
- Input the position of this sensor
- Choose the sensor’s status, Invalid or Valid
- Click “Save” after finish setup.

Sensor No.	Position	Type	Status
1	left	Float-switch sensor	Invalid
2	right	Float-switch sensor	Invalid
3	test	Float-switch sensor	Invalid
4		Float-switch sensor	Invalid
5		Float-switch sensor	Invalid
6		Float-switch sensor	Invalid
7		Float-switch sensor	Invalid
8		Float-switch sensor	Invalid
9		Float-switch sensor	Invalid
10		Float-switch sensor	Invalid
11		Float-switch sensor	Invalid
12		Float-switch sensor	Invalid
13		Float-switch sensor	Invalid
14		Float-switch sensor	Invalid
15		Float-switch sensor	Invalid
16		Float-switch sensor	Invalid


4.14 GSM configure

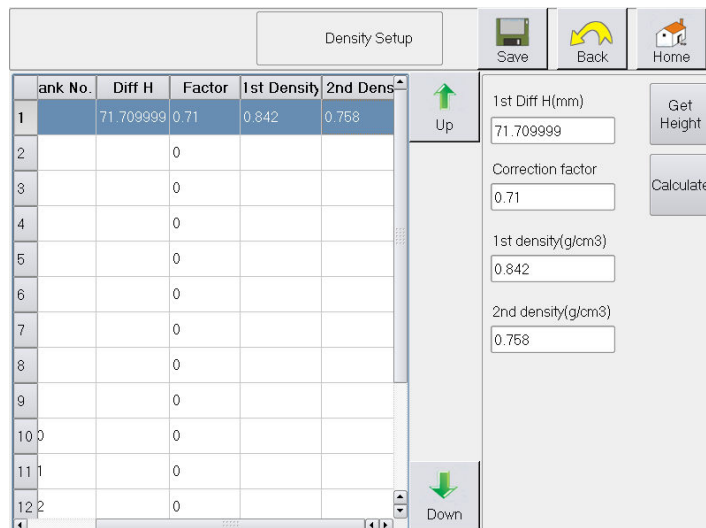
Click  to setup message function.

- Input the receiver's mobile phone number at Phone, support up to 2 different mobile phone number as receiver, and please also input the Center number.
 - Center number is the Message center number. Like In china the country code is 86, and the message center number at Zhengzhou city of China Mobile (one of the Mobile operator in China) is 138 0037 1500, so the message center number is 8613800371500.
 - Setup the content of automatically message, and choose if need message when there is an alarm of tank, or a delivery of tank, or a shift at petrol station.
- Click Save after finish setup.



4.15 Density configure

Click  to setup Density measurement.



Tank No.	Diff H	Factor	1st Density	2nd Density
1	71.709999	0.71	0.842	0.758
2		0		
3		0		
4		0		
5		0		
6		0		
7		0		
8		0		
9		0		
10	0	0		
11	1	0		
12	2	0		

Measure range of Density floater:

Gasoline: 0.70 ~ 0.74; 0.74 ~ 0.78(g/cm³); Diesel: 0.80 ~ 0.84; 0.84 ~ 0.89 (g/cm³)

How to configure density measurement on SS160 console?

- Put probe into one liquid, measure liquid density by density gauge, result is 0.7405g/cm³, click bottom “**Get Height**”, system will automatically calculate the height balance between density floater and oil floater, and display the balance value at” **1st Diff H**”
- Input the density value measured by density gauge 0.7405g/cm³ at “**1st Density**”
- Click “**save**” button to store the above configuration
- Put probe into another liquid, measure liquid density by density gauge, result is 0.775g/cm³, input the density value 0.775 g/cm³ at “**2nd Density**”
- Click ”**Calculate**” to calculate density coefficient, the result will displayed at “**Correction factor**”
- Click “**Save**”, configuration is finished.


After finish configuration, install probe into oil tank, system will automatically start to measure the current density of oil, please see home page as below, “D” is Density.

Note: Customer should offer the density range of measured liquid when order. The correction coefficient of density will preset before delivery out of factory, users can install probe and start use directly.

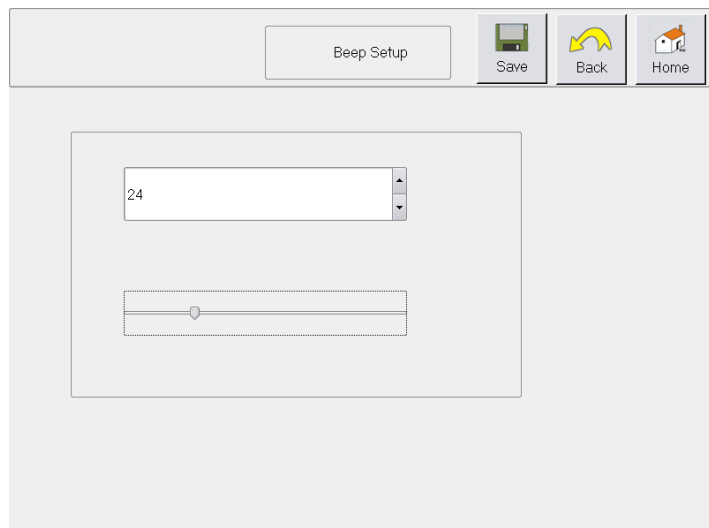
If the density of liquid has changed a little so different with the original density offered to manufacturer, users can calibrate density coefficient according to above method.

And if the density measured by ATG is different from the density value measured by density gauge, please calibrate correction coefficient!

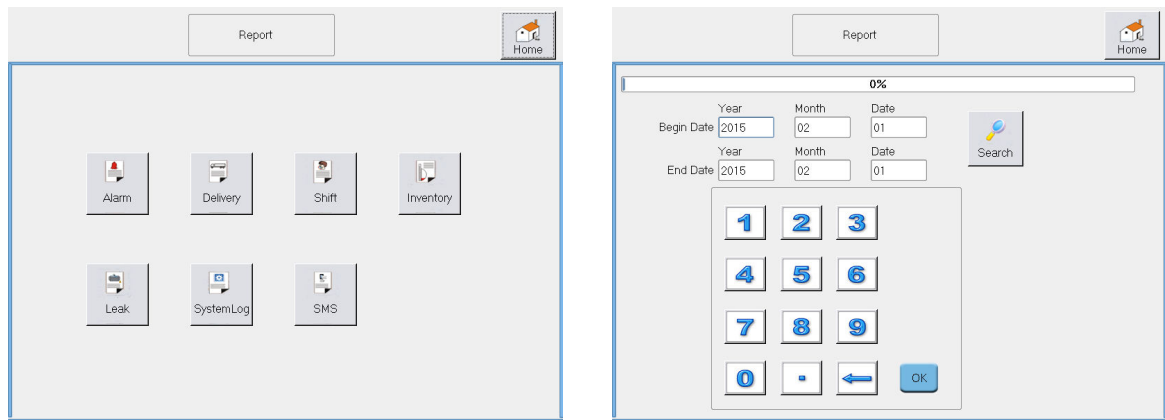
4.16 Beep configure

Click  to setup beep level for alarm warning.

- Choose desired beep level by up and down arrow or adjust by slider
- Click “Save” after finish setup.



5. System reports



Input the starting date and end date to set a search limitation, system will display the result to you soon.

5.1 Alarm report

	Tank No	Oil Type	Action	Value	Status	Time
1	1	98#	Interrupt	0	Auto	2014-11-05 16:33:48
2	2	-5	Interrupt	0	Auto	2014-11-05 16:33:49
3	3	-35#	Interrupt	0	Auto	2014-11-05 16:33:50
4	4	-30#	Interrupt	0	Auto	2014-11-05 16:33:50
5	5	-30#	Interrupt	0	Auto	2014-11-05 16:33:51
6	6	-10#	Interrupt	0	Auto	2014-11-05 16:33:52
7	1	98#	Interrupt	0	Auto	2014-11-06 10:14:24
8	2	-5	Interrupt	0	Auto	2014-11-06 10:14:26
9	3	-35#	Interrupt	0	Auto	2014-11-06 10:14:26
10	4	-30#	Interrupt	0	Auto	2014-11-06 10:14:27
11	5	-30#	Interrupt	0	Auto	2014-11-06 10:14:28
12	6	-10#	Interrupt	0	Auto	2014-11-06 10:14:29

Value is mean the oil product level when alarm happen

5.2 Delivery report

- Add V is the oil volume discharge into tank
- Compensate V is the oil volume after take temperature compensation into consideration

Delivery Report										Printer	Back	Home
Tank No	Oil Type	Begin H	Begin V	End H	End V	Add V	Compensate V			Up		
1	1	98#	310.2	1390.6	615.5	3504.4	2113.7	2113.2	20			
2	1	98#	649.6	3749.6	803.9	4832	1082.4	1081.4	20			
3	2	-5	515.1	2783.9	740.8	4397.6	1613.7	1552.7	20			
										Down		

5.3 Shift report

See right picture

Shift Report										Printer	Back	Home
	Shift No	Tank No	Oil Type	Prev H	Prev V	Next H	Next V	Add V		Up		
1	2014032401	2	-5	0	0	0	0	0				
2	2014032402	2	-5	0	0	0	0	0				
3	2014041801	1	98#	0	0	0	0	0				
4	2014041801	13	-35#	0	0	0	0	0				
5	2014041802	1	98#	0	0	0	0	0				
6	2014041802	13	-35#	0	0	0	0	0				
7	2014041803	1	98#	0	0	0	0	0				
8	2014041701	1	98#	0	0	0	0	0				
9	2014041801	1	98#	0	0	0	0	0				
10	2014041802	1	98#	0	0	0	0	0				
11	2014041803	1	98#	0	0	0	0	0				
										Down		

5.4 Inventory report

See right picture

Inventory Report										Printer	Back	Home
Tank No	Oil Type	Oil H	Water H	T	V	Time				Up		
1	1	98#	0	0	0	0	2014-05-05 14:00:00					
2	2	-5	0	0	0	0	2014-05-05 14:00:00					
3	3	-35#	0	0	0	0	2014-05-05 14:00:00					
4	4	-30#	0	0	0	0	2014-05-05 14:00:00					
5	5	-30#	0	0	0	0	2014-05-05 14:00:00					
6	6	-10#	0	0	0	0	2014-05-05 14:00:00					
7	1	98#	0	0	0	0	2014-05-14 16:00:00					
8	2	-5	0	0	0	0	2014-05-14 16:00:00					
9	3	-35#	0	0	0	0	2014-05-14 16:00:00					
10	4	-30#	0	0	0	0	2014-05-14 16:00:00					
11	5	-30#	0	0	0	0	2014-05-14 16:00:00					
12	6	-10#	0	0	0	0	2014-05-14 16:00:00					
										Down		

5.5 Leak detection report

Leak Report								Printer	Back	Home
Tank No	Level	Begin H	Begin V20	End H	End V20	Status	Begin Time	Up		
1	2	0.76L/H	1226.3	12274	1231.5	12259.6	Leaking	2014-10-10 23:50		
2	1	0.76L/H	1029.8	10359.8	1034.6	10358.4	Leaking	2014-11-01 01:00		

Down

5.6 System Log report

Log Report					Back	Home
	Time	Memo	Action Type	User Name	Up	
1	2015-02-01 08:43:22	System	Start Program			
2	2015-02-01 09:01:32	System	Start Program			
3	2015-02-01 16:07:22	System	Start Program			
4	2015-02-01 16:12:48	System	Start Program			
5	2015-02-01 16:14:30	System	Start Program			
6	2015-02-01 16:24:18	System	Start Program			
7	2015-02-01 16:28:55	System	Start Program			
8	2015-02-01 16:30:04	System	Start Program			
9	2015-02-01 16:32:55	System	Start Program			
10	2015-02-01 16:35:42	System	Start Program			
11	2015-02-01 16:38:24	System	Start Program			
12	2015-02-01 17:10:35	System	Start Program			

Down

5.7 SMS report

SMS Report					Back	Home
	Phone	Memo	Status	Time	Up	
1	15936230456	2014-11-07 15:06:49	No Sended	2014-11-07 15:06:49		

Down