User Guide for Real-time Monitoring System
Content

1. Introduction for TronFlux Monitoring System................................................................. 2
   1.1 Configuration Requirements ...................................................................................... 2
   1.2 Setting Router (ex: 192.168.1.1) ............................................................................. 2
   1.3 Drive Installation ....................................................................................................... 3

2. Introduction for TronFlux Monitoring System Software .............................................. 4
   2.1. Including 3 kinds of software .................................................................................. 4
   2.2 TonFlux MySQL Data Base and PHP Web Service Installation ................................. 5

3. Chapter One TronFlux PHP web client-side................................................................. 7
   3.1 Introductions ............................................................................................................. 7
   3.2 Add Device Settings (Ex: WiFi data logger/GPRS data logger) ................................ 8

4. Chapter Two Introduction for Management platform ................................................. 12
   4.1 Soft-Manage ............................................................................................................ 12
   4.2 Instrument Manager (not editable for gray words) .................................................. 13
   4.3 Group Manage ............................................................................................................. 15
   4.4 Registration Manage and User Manage .................................................................. 15
   4.5 Login Manage ............................................................................................................ 17
   4.6 Historical Inquiry ...................................................................................................... 17

5. Chapter Three Frequently Asked Questions.............................................................. 19
   5.1 LogLive – Open serial false .................................................................................... 19
   5.2 TronFlux php open failed ......................................................................................... 19
   5.3 No email alarm under limits settings exceeded ...................................................... 19
1. Introduction for TronFlux Monitoring System

1.1 Configuration Requirements

(1) Server PC for TronFlux under Windows XP/Win7/Win8

(2) Set router for Gprs transmission and need Static IP (or DDNS)

(3) No need setting router for Wifi data loggers under LAN (but need setting router and need Static IP under internet monitoring)

1.2 Setting Router (ex: 192.168.1.1)

1. Firstly, go to your router setting window-Advanced settings-Network parameters and binding IP and MAC address of the TronFlux local Server PC. (in case of the IP changing effects TronFlux working) Picture as follows:

![Router Setting Window](image1)

2. Set up the Port Forwarding for this IP after IP and MAC binding. Picture as follows:

![Port Forwarding Setup](image2)
3. Edit suitable Port no. Internal port and External port keep the same. Ex: 6200. Picture as follows: (Also can refer to our Video Guide)

1.3 Drive Installation

1. Copy TronFlux package from CD to local Disk. (Notice: suggest not put under system disc or on desk in case of data lost)

2. Open TronFlux package and Run setup.exe under Driver; Picture as follows:

3. Click "Install" and driver will be installed automatically. Wait it pop-up the success dialog. Picture as follows:
2. Introduction for TronFlux Monitoring System Software

2.1. Including 3 kinds of software

1. TronFlux Server software (green software, Click to run); Can receive wireless wifi/gprs/zigbee/rs485/usb loggers data and save to data base of the computer.

① Auto Scroll: Click to see the real-time connection information of data loggers

② Save Log: Click can save real-time connection information to the file under software location

③ Device: For particular users. Not introduce much here

④ Auto Run: Click here can open the auto start function when computer

⑤ Time Sync: Click here will synchronize the time of this Sever PC to all connected data loggers.

⑥ Smtp Sever: Click here can set up Email Alarm Function

⑦ Exit: Click here to Exit TronFlux software

⑧ Notice: Must Exit and restart the TronFlux Server if done any settings change on TronFlux
TronFlux Real-time Monitoring Solution

Server (ex: Auto-Run, Timesync, Smtp Server etc).

2. Web client-side: run the IP address of local PC or 127.0.0.1 (Need to make sure MySQL and PHP are installed well first)

3. LogLive setup software (green software, click to run): this software can setup all basic parameters, SMS alarm phone numbers, APN/Server Address/Server Port for Gprs/WiFi data loggers. (detailed information can refer to the LogLive User Guide)

2.2 TonFlux MySQL Data Base and PHP Web Service Installation

1. Click to open the TronFlux package as follows:

2. Double Click “Setup.exe” to install as follows:

3. Click to “Install MySQL Database”
4. Click again to “Install PHP Web Service”. Close dialog after installation finished. (must choose to allow when pop-up warning message from your installed antivirus software)
3  Chapter One TronFlux PHP web client-side

3.1 Introductions

1. Firstly, go to browser and input local IP address (ex: 192.168.1.21) or 127.0.0.1, go to Management platform. Initial user: admin; Initial password: 123456. As Follows:

2. You can see Real-time Monitoring, Historical Inquiry and System Settings after login. Picture as follows:

① Real-time Monitoring: Display real-time temperature/humidity values information
② Historical Inquiry: Check 1 unit or several units historical data table; also can export to PDF/BMP.
③ System Settings: add/edit device parameters
3.2 Add Device Settings (Ex: WiFi data logger/GPRS data logger)

1. Use LogLive to connect WiFi /GPRS data logger and finish wireless settings and basic parameters.

① APN : For WiFi data loggers, Input wireless router’s name and password, there is a comma between them. (ex: AAA001,SYS1234). For GPRS data loggers, Input access point name of your local SIM card. (ex: it is cmnet in China; it is internet in South Africa) Usually, can get the name from your mobile phone or ask for SIM card service provider.

② Server Address: Input the IP address of the computer which installed TronFlux software. (ex: 192.168.1.21). For internet remotely monitoring; it should be Static IP. No need Static IP if just for LAN monitoring with WiFi data loggers. Also can use DDNS software account if do not have Static IP.

③ Server Port: Input port no, ex: 6666. (Notice: should have no conflict with other software port. Need to set port forwarding on Router if need internet connection). Picture as follows:
2. Login to TronFlux Management platform, chose System Settings and go to Instrument Manage; Example: Name: R90 wifi, Serial number: SR20159133, Communication type: Network export. Picture as follows:

![Basic parameters](image1)

3. Choose suitable Sensor number according to models you have. Picture as follows:

![Sensor parameters](image2)

4. Chose Open under sound and light alarm. Input same information on Loglive settings under APN and Server address. Ex: AAA001,SYS1234 and ex: 192.168.1.21. (keep same information as settings via Loglive) Picture as follows:

![Other parameters](image3)

5. Click “Add” after the above settings finished.

6. Go to “Group Manage” and click “ add” ; name the Group, select the device and click “Save”. Picture as follows:
7. Go to “Login Manage”, Select the Group and click “Save”. Also can input email alarm address under this interface. Picture as follows:

8. Go to “Soft-Manage”, input same Network port no as settings via LogLive. Ex: 6666. Picture as follows:
9. Start the logging function on data loggers. Press the left button long enough about 5s to start LOG. (Detailed operation refers to R90 User Guide)

10. Finally, after all settings finished and LOG function started, turn on and running TronFlux Server under software package and then waiting the connection (it may take about 30s for wireless connection). Picture as follows:
4 Chapter Two Introduction for Management platform

4.1 Soft-Manage

1. Recording interval: Time interval of computer data base. (1 minute, 5 minutes, 30 minutes and 1 hours are selectable)

2. Serial port: Port number for USB/RS485 communication device. (Port check method: Right-click the computer - device manager – port). Ignore this if use WiFi/gprs wireless communication.

3. Backup path: standby interface (under construction)

4. Network port:① WiFi device: same port number as on LogLive setting under LAN  
   ② WiFi device: same port number as on LogLive and the forwarding port number assigned from router under internet.  
   ③ GPRS device: same port number as on LogLive and the forwarding port number assigned from router.  
   ④ No need port number for RS485 or USB device.
4.2 Instrument Manager (not editable for gray words)

1. Basic parameters

① Eq-model: Device model (R: rs485 device/W: wifi device/G: gprs device/U: usb device/Z: zigbee device)

② Firmware version: version type

③ Eq-type: device type and information

④ Working state: standby/recording etc

⑤ Name: give a name to your device (editable)

⑥ Serial number: input 10 digits serial no according to device label

⑦ Network address: automatic extraction once connected

⑧ Communicate type: choose Serial port for RS485/USB device; chose Network export for WiFi/GPRS/Zigbee device.

⑨ Refresh interval (s): refresh interval of device LCD display and sampling interval of TronFlux Server; suggest 10s.

⑩ Record interval (s): logging interval of device (this interval should be longer than refresh interval. Suggest more than 120s for wireless devices)
Notice: Write success/Waiting to write means settings saved well or waiting to write.

2. Sensor parameters

<table>
<thead>
<tr>
<th>Sensor parameters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensor Num:</td>
</tr>
<tr>
<td>Channel one</td>
</tr>
<tr>
<td>Channel two</td>
</tr>
<tr>
<td>Channel three</td>
</tr>
<tr>
<td>Channel Four</td>
</tr>
</tbody>
</table>

1. Sensor num: choose suitable channel according to actual device (signal channel/double channel/four channel available)
2. Temp unit: Centigrade and Fahrenheit available.
3. Channel one:
   - High limit/Low limit of alarm function--editable (ex: high limit: 35/low limit: 10)
   - Type: choose according to actual device. (temperature/humidity)
   - Offset: calibration offset.

3. Other parameters

<table>
<thead>
<tr>
<th>Other parameters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Start mode:</td>
</tr>
<tr>
<td>Sound and light alarm:</td>
</tr>
<tr>
<td>Alarm delay(s):</td>
</tr>
<tr>
<td>Operator(APN):</td>
</tr>
</tbody>
</table>

1. Start mode: choose according to actual needs. Immediately start/delay record/start time.
   - Suggest immediately start.
2. Stop mode: FIFO (circular record)/ Full stop/ Timing stop.
③ Upload and process: Keep after uploading/ delete after uploading

④ Time delay interval: choose delay record and input 3600 (means delay record 1 hour)/ chose start time and input 0800 (means start at 8.00am)

⑤ Sound and light alarm: Close/Open alarm function

⑥ Real-time printing: Close/Open. Need device support real-time printing function.

⑦ Total records: recording capacity

⑧ Recorded frames:

⑨ Alarm delay(s) : SMS function delay time for GPRS device

⑩ Alarm interval(s): SMS interval time for GPRS device

⑪ Operator (APN)/Server address: already described on page 8-9.

4.3 Group Manage

1. Click “Add” and give a name to this new region and “Save”

2. Click this new region, can select device or unselect device and Click “Save”.

4.4 Registration Manage and User Manage

( these two functions are similar just to distinguish the user registration and the allocation of the system administrator)
1. Login and click “Add”.

① System Administrator: can edit and modify all the functions which software has; include query or delete Group Administrator and ordinary users. (the name cannot be modified once added but can edit other parameters)

② Group Administrator: can edit and modify all the devices which assigned from System Administrator. Password also can be modified.

③ Ordinary Users: can check and query historical data. (do not have edit authority)
4.5 Login Manage

Can edit phone number/E-mail/password and select or unselect groups and Click “Save”

4.6 Historical Inquiry

1. Firstly, select the time you want to query, then select the group and which device you need to check, and finally click Submit. (Notice: each device should have a name if you want to check its historical data)

2. Click “Save PDF” can save all data as PDF document.
3. Click “View Chart” can see the data graph and also can Save as BMP.
5 、 Chapter Three Frequently Asked Questions

5.1 LogLive – Open serial false

Reason: choose wrong serial port no or USB driver not installed well.

Handling method: firstly check if USB driver installed well. Secondly, check the right serial no (Right click Computer—Management—check port no)

5.2 TronFlux php open failed

Reason 1: 80 port is occupied, data based installed incompletely.

Handling method: Uninstall the software which occupied 80 port or change one clean computer to install TronFlux software. (TronFlux software is Server software for monitoring system, suggest use one clean computer without too many tools software)

Reason 2: IP in not correct

Handling method: Input local IP address or 127.0.0.1 in browser.

5.3 No email alarm under limits settings exceeded

Reason 1: Email address is not correct when doing settings on software.

Handling method: Input correct email address (Inbox)

Reason 2: Wrong Information on Smtp Server. Email Server/port/account/password etc (Outbox).

Handling method: Input correct information and double check.

Reason 3: Too many alarm emails or in spam mail.
Handing method: add to white list.

Reason 4: Windows Firewall or antivirus software blocked the TronFlux email function

Handling method: Turn off Windows Firewall or antivirus software. Also can copy the EMail.dll file in software CD to TronFlux (Picture as follows)