GPRS Data Logger

Centre Software Guide

UDP / TCP

Revision 100820 [v1.0.2A]

Contents

1. How to get data from GPRS Data Logger?

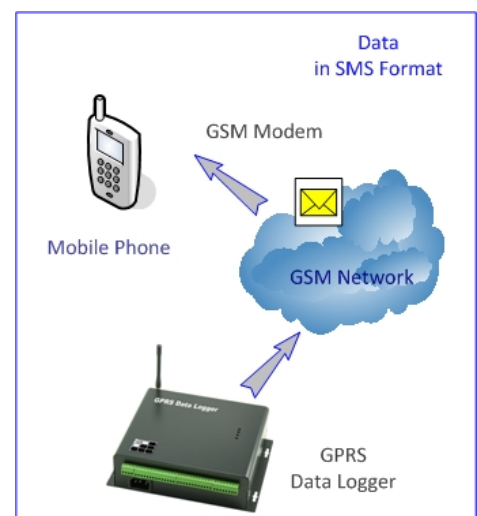Data can be live and historical.

There are 4 different modes of getting data from GPRS Data Logger.

- "GS828_Centre" is the Standard version of server software.
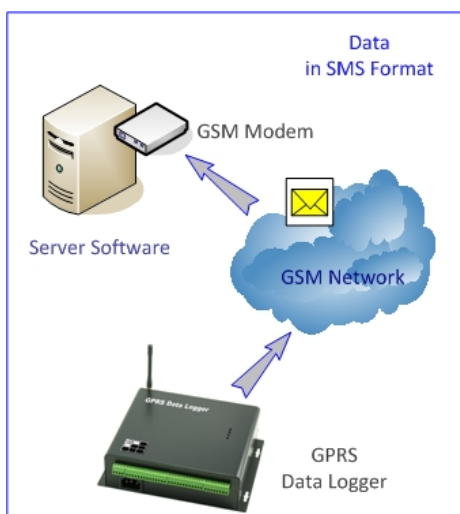- "GS828_Server" is the Premium version of server software.

This manual is mainly describing the use of "GS828_Centre" software in getting live data via Internet.

A) Via SMS by Mobile Phone:
- Please refer the command list to the operation manual of GPRS Data Logger.
- User sends SMS command to GPRS Data Logger which will reply a SMS message with detail live data
- User receive the data on the SMS message by the mobile phone

This method is inefficient and seldom used. But it provides an easy check of operation status of GPRS Data Logger with user mobile phone.
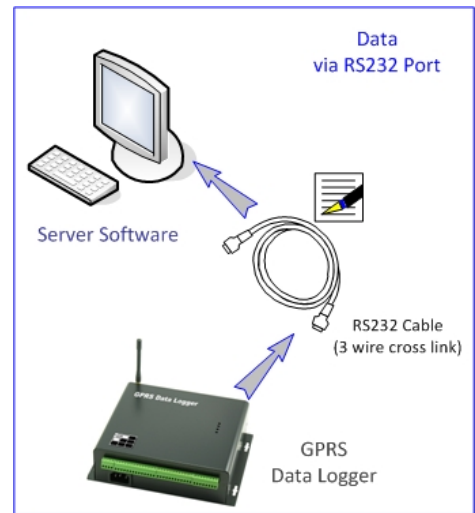

B) Via SMS by GSM Modem connecting to PC:
- "GS828_Server" software supports receiving data from GPRS Data Logger via SMS.
- The software will keep receiving data via SMS from a number of GPRS Data Loggers, and storing into the server database
- Data will be saved in xml files and Access/MySQL/SQL/Oracle database for user development.

C) Via RS232 Port connecting to PC:

- Both "GS828_Setup" and "GS828_Server" software support receiving the data from GPRS Data Loggers via RS232 port.
- Data will not be saved using "GS828_Setup" software.
- Data will be saved in database using "GS828_Server" software
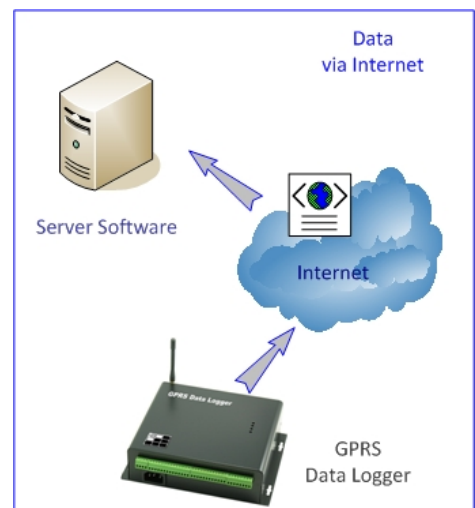
This method is usually for on-site application.

D) Via Internet:

- Both "GS828_Centre" & "GS828_Server" software support receiving the data from GPRS Data Loggers via Internet.
- "GS828_Centre" software will save data in text file.
- "GS828_Server" software will save data in XML and other Database files.

This method is the most common way of receiving and managing the data.

However, there are two data communication protocols:

1) UDP
2) TCP

2. Server Version Comparison

Below is the comparison table of two different versions of Server Software:

Edition	Standard	Premium
[A] Server Software Name	GS828_Centre	GS828_Server
Receive Data via SMS	—	Yes
Receive Data via GPRS Data	Yes	Yes
Receive Data via RS232 Port	—	Yes
Live Data Display	Yes	Yes
Database	Daily text	Access / MySQL
		SQL / Oracle
XML	—	Yes
Data Export to Excel	—	Yes
Remote Command via SMS	—	Yes
Remote Command via Internet	—	Yes
Schedule Command	—	Yes
Batch Command	—	Yes
Temperature & Humidity Alert	—	Yes
Send Alarm Alert via TCP network	—	Yes
Send Alarm Alert via email	—	Yes
Send Alarm Alert via SMS	—	Yes
Alert Users Grouping	—	Yes
Alert Emails Grouping	—	Yes
Client Software support	—	Yes
Max. Data Loggers simultaneous support	99	9999
Data Loggers Management	—	Yes
User Authentication & Management	—	Yes
Network Client Authentication & Management	—	Yes
Web Based Access support	—	Yes
SDK for user development	—	Yes
[B] Client Software	N.A.	Bundled
Live Data Display	—	Yes
Alarm Alert	—	Yes
Graphic Display of Temperature & Humidity	—	Yes
Temperature & Humidity Hi/Low Alert	—	Yes
Historical Data Access	—	Yes

3.   Before Installation

Hardware Requirements:

Server PC:

- Intel Core2 Duo CPU E6550 or above

- 2GB RAM, 100GB hard disk

- Windows XP Professional/Vista Premium/7

- Min. 1024 x 768 display

- Public fixed IP must be available [either configured in Server computer or Network Router]
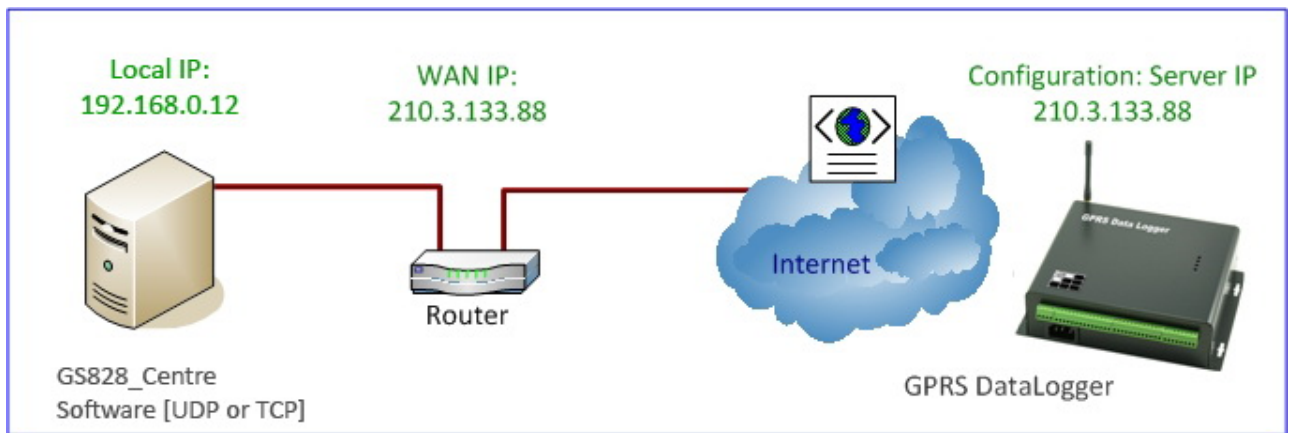

SIM card

- GPRS service is activated

- Call ID service is activated

- PIN code must be removed (disabled, but not 0000)

Start Up Steps

(1) Get the GPRS Data Logger ready

(2) Get the PC hardware ready

(3) Install "GS828_Centre" software

4. About Server IP

Please check carefully your local network and router configuration:

In the example case of this manual:

A) GPRS Data Logger configuration should be setup as below.

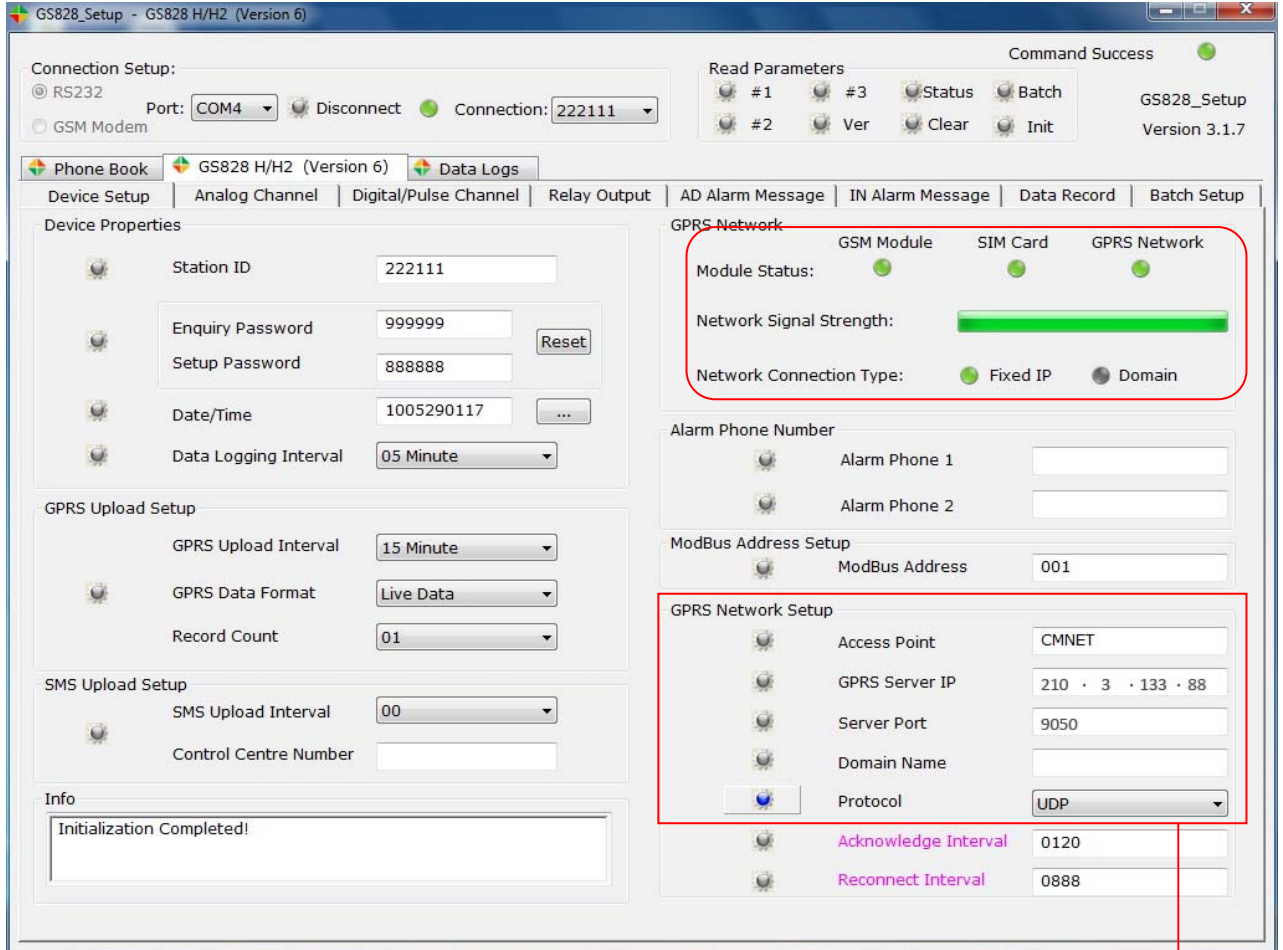GPRS Server IP: 210.3.133.88

Server Port:: 9050

B) Computer running the GS828_Centre Software should have the following local IP as below.

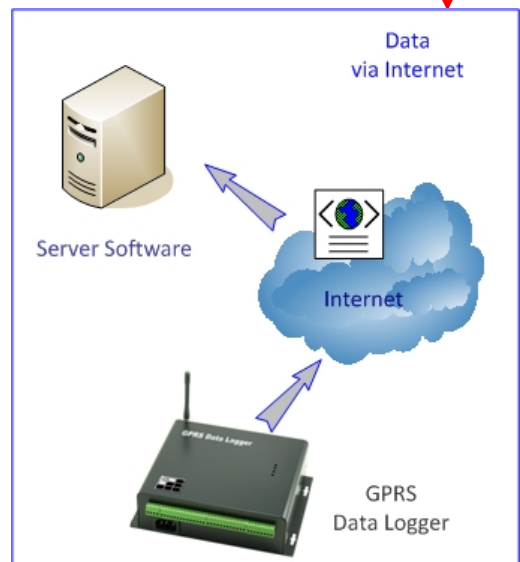GS828 Centre IP: 192.168.0.12

Local Port: 9050

5. Start Up [UDP]

- Using "GS828_Setup" software to configure GPRS Data Logger properly

- Using "GS828_Centre [UDP]" to receive the data from GPRS Data Logger

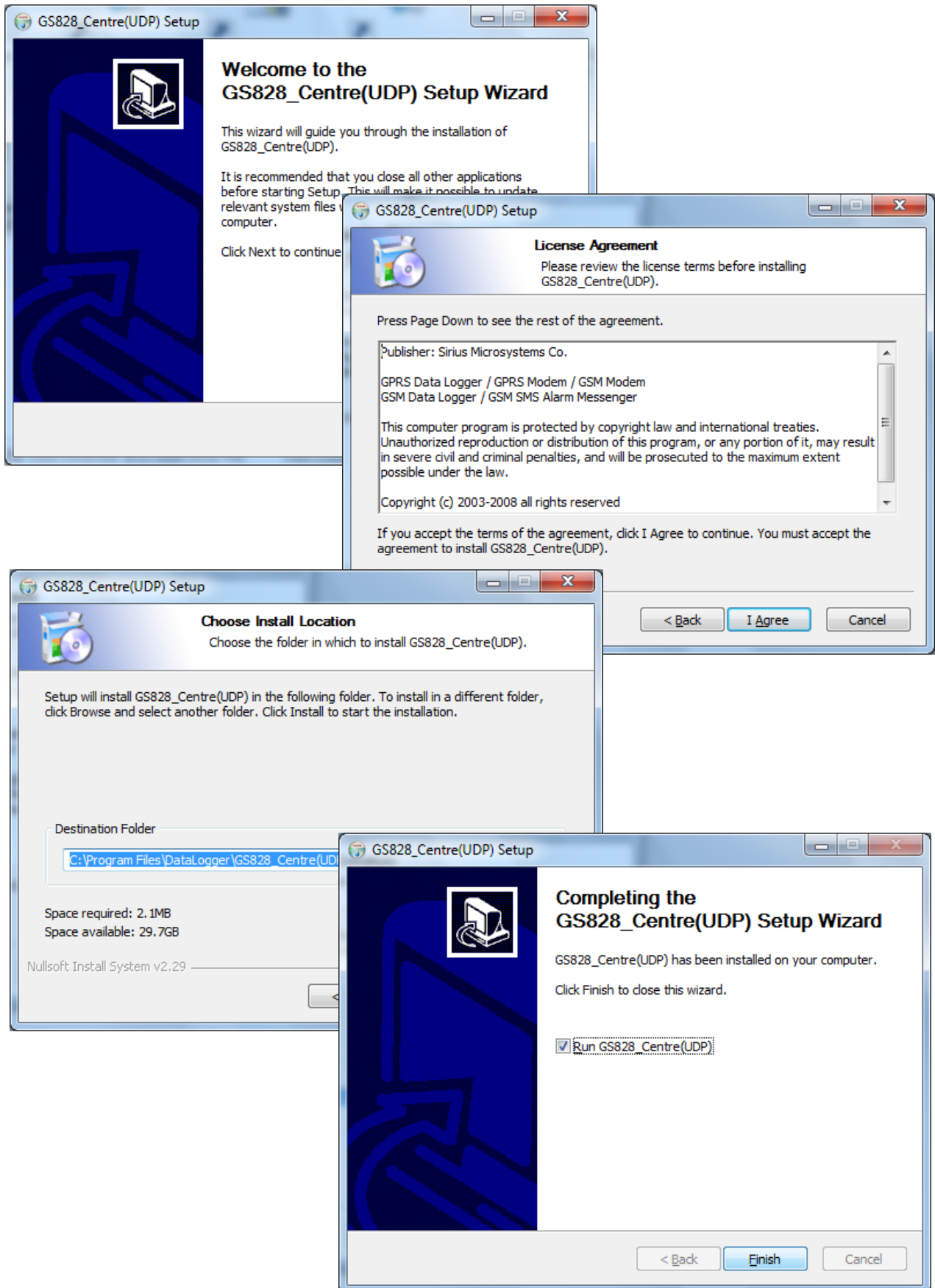Following parameters must be configured in GPRS Data Logger:

- GPRS Upload Interval
- Protocol: UDP
- Access Point
- Server Port
- GPRS Server IP

ⓘ GS828_Centre only supports fixed IP connection.

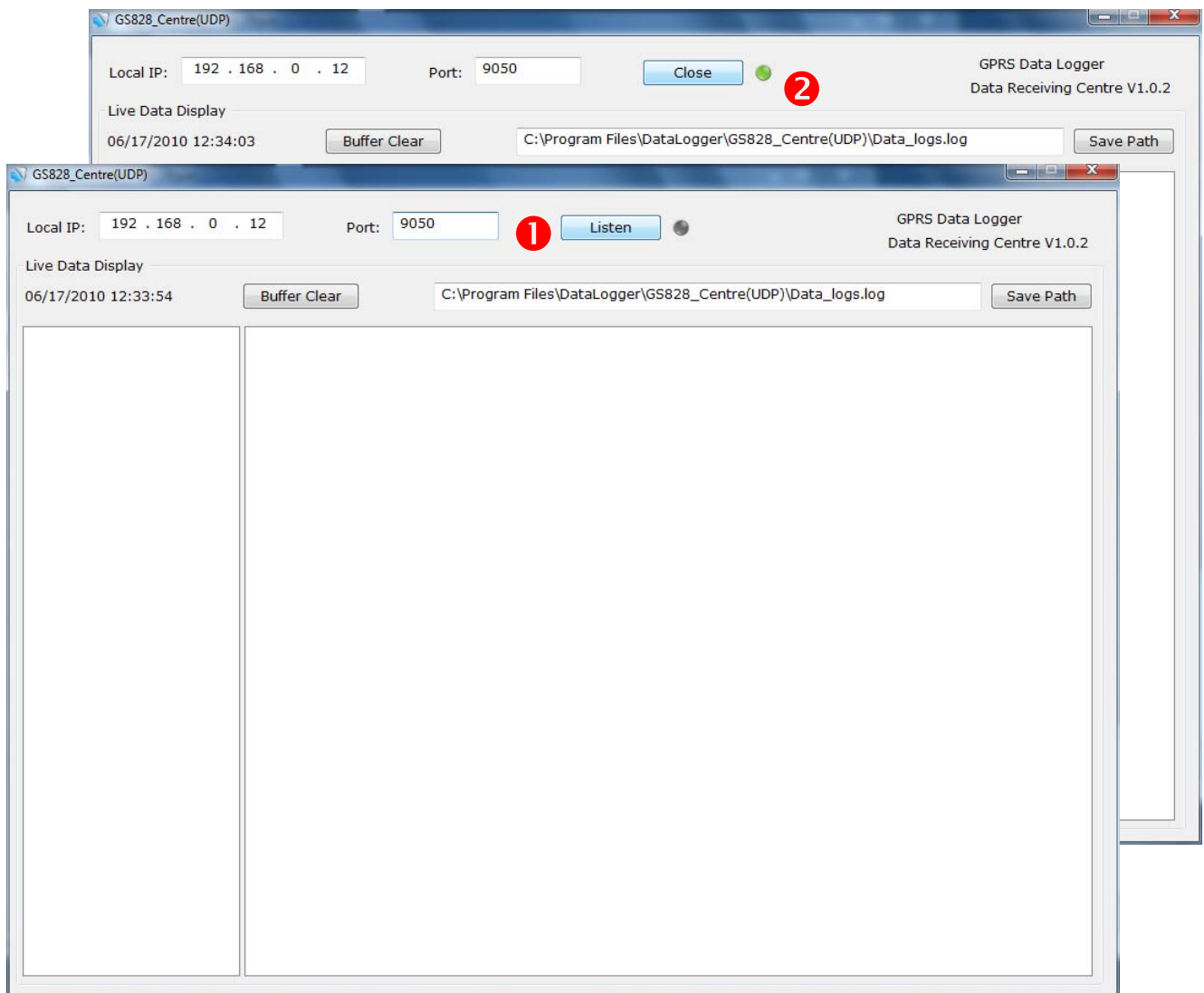## 6. Install the "GS828_Centre (UDP)" software

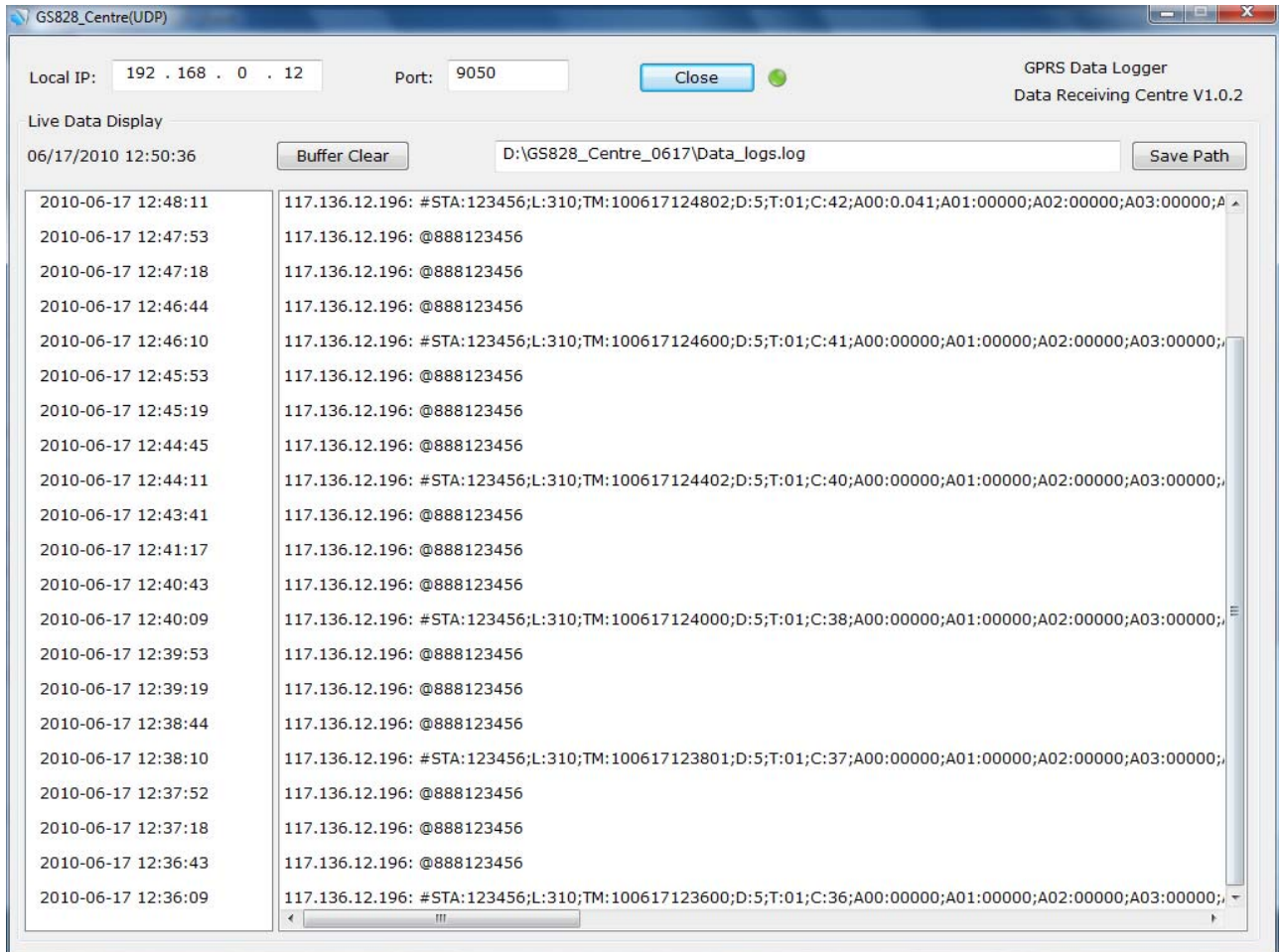- Run GS828_Centre (UDP), and follow the instructions

7. Centre [UDP] Setup

Following parameters should be configured in GS828_Centre software:

- Local IP (depending on the LAN setup) will be automatically detected

- Server Port – must be same as configured in GPRS Data Logger

- Click [Listen] to start receiving the data

- Green LED will be ON
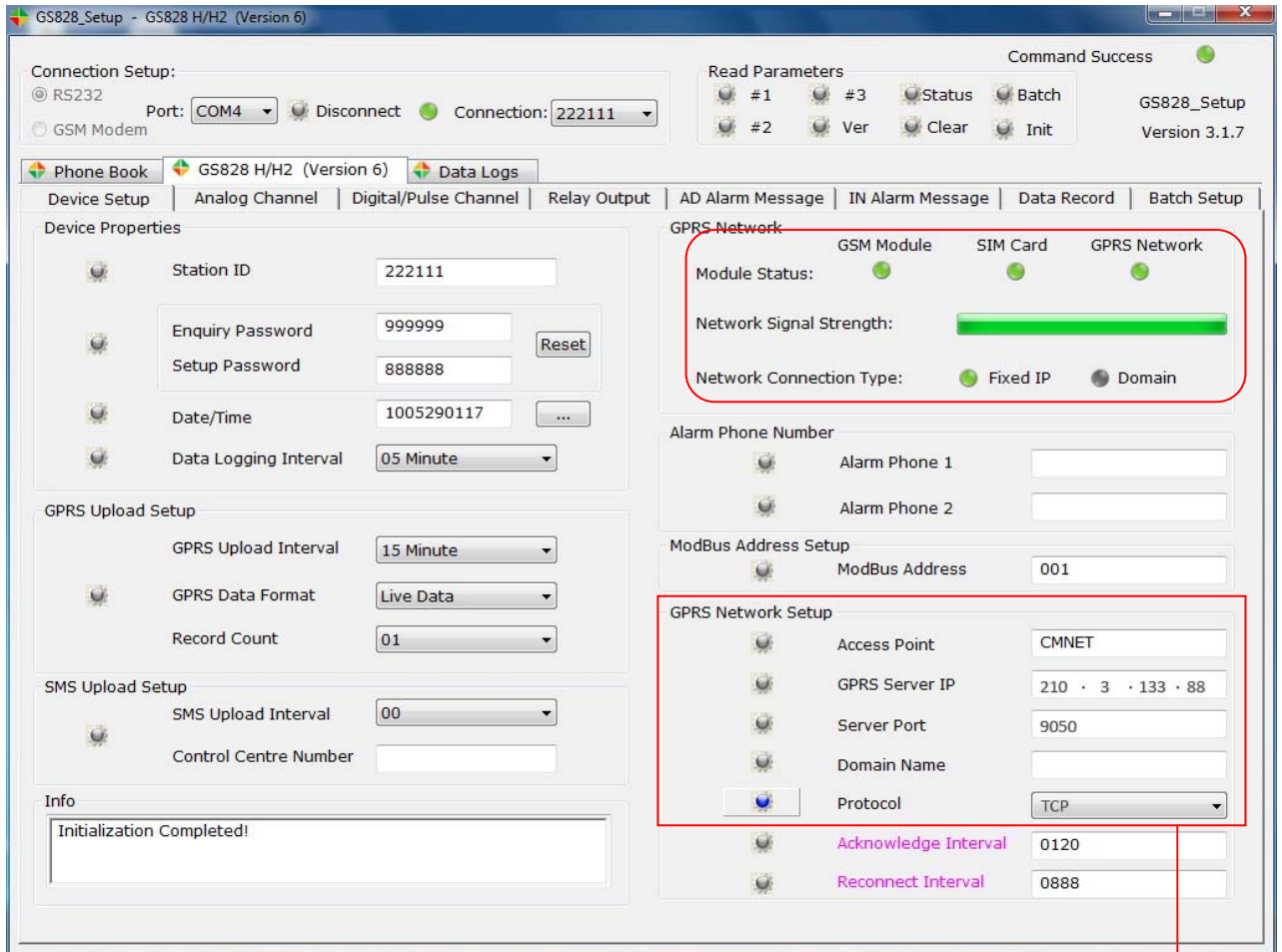
8. Receiving Data [UDP]

- Data will be saved in the "Data_Logs.log" text file

- Only one day data will be saved, and overwritten on another day

🛈 Don't forget to click [Close] before exiting the software. It will release the network port for other applications.
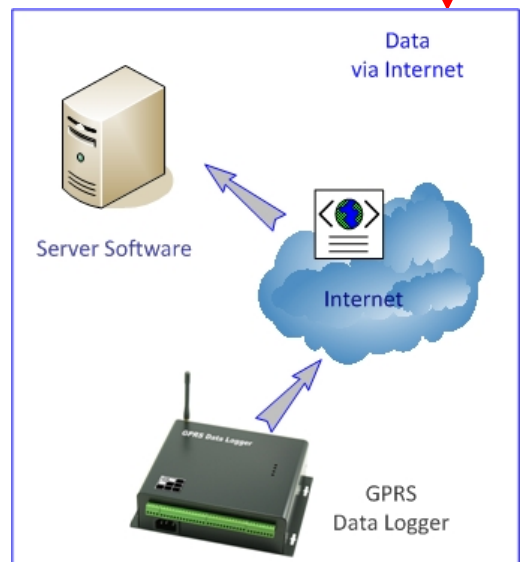
9. Start Up [TCP]

- Using "GS828_Setup" software to configure GPRS Data Logger properly

- Using "GS828_Centre [TCP]" to receive the data from GPRS Data Logger

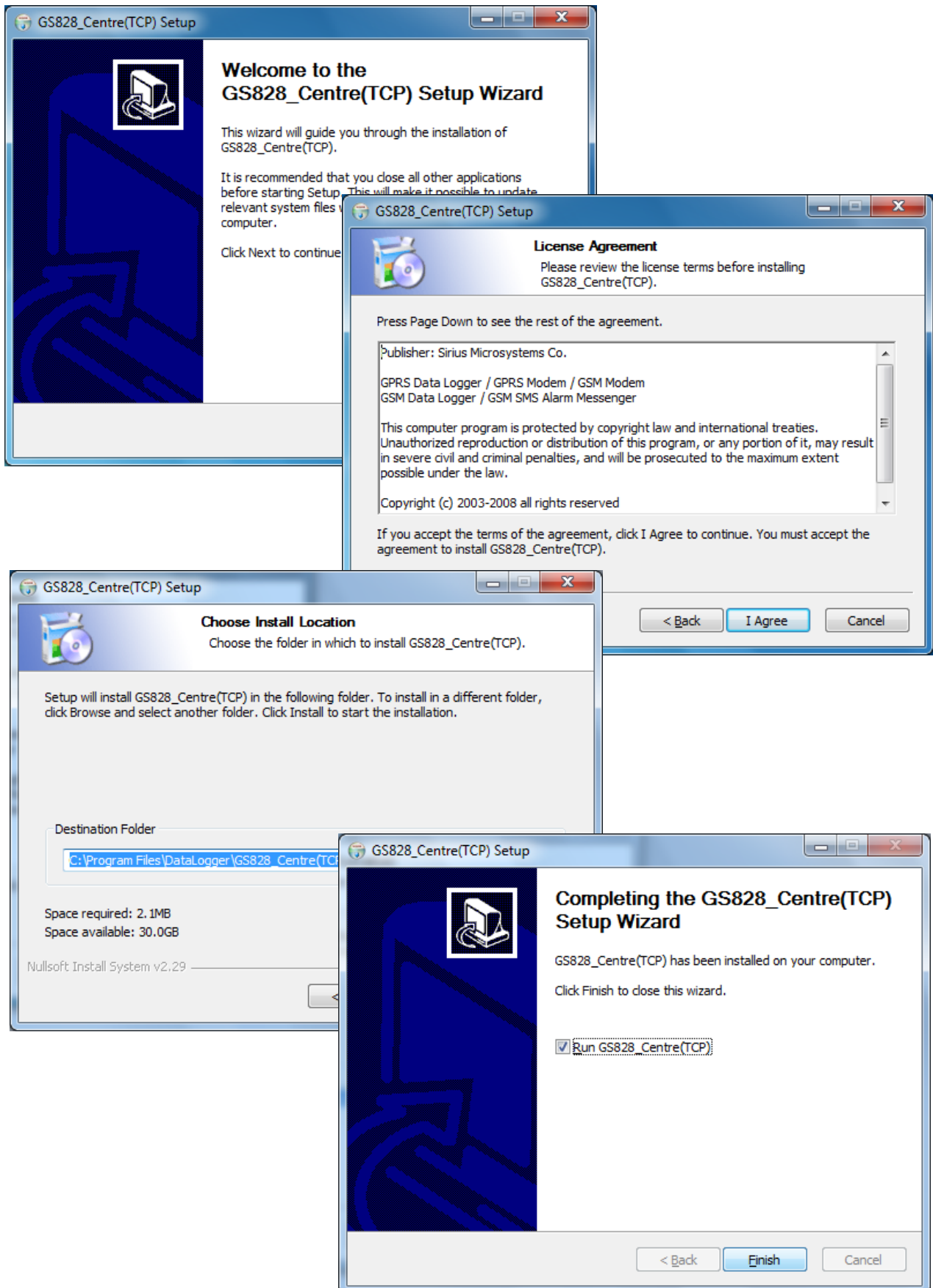Following parameters must be configured in GPRS Data Logger:

- GPRS Upload Interval
- Protocol: TCP
- Access Point
- Server Port
- GPRS Server IP

ⓘ GS828_Centre only supports fixed IP connection.

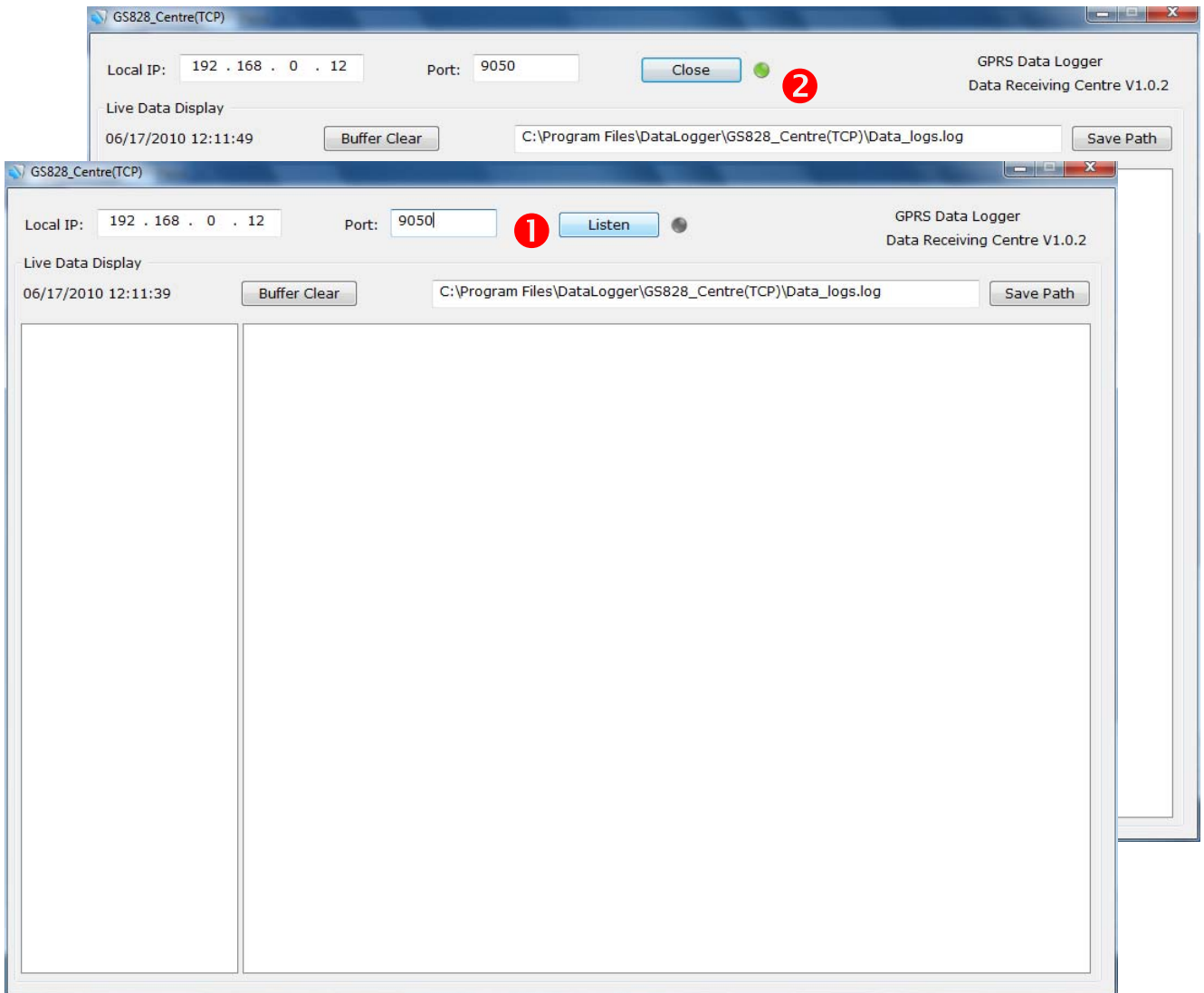## 10. Install the "GS828_Centre (TCP)" software

- Run GS828_Centre (TCP), and follow the instructions
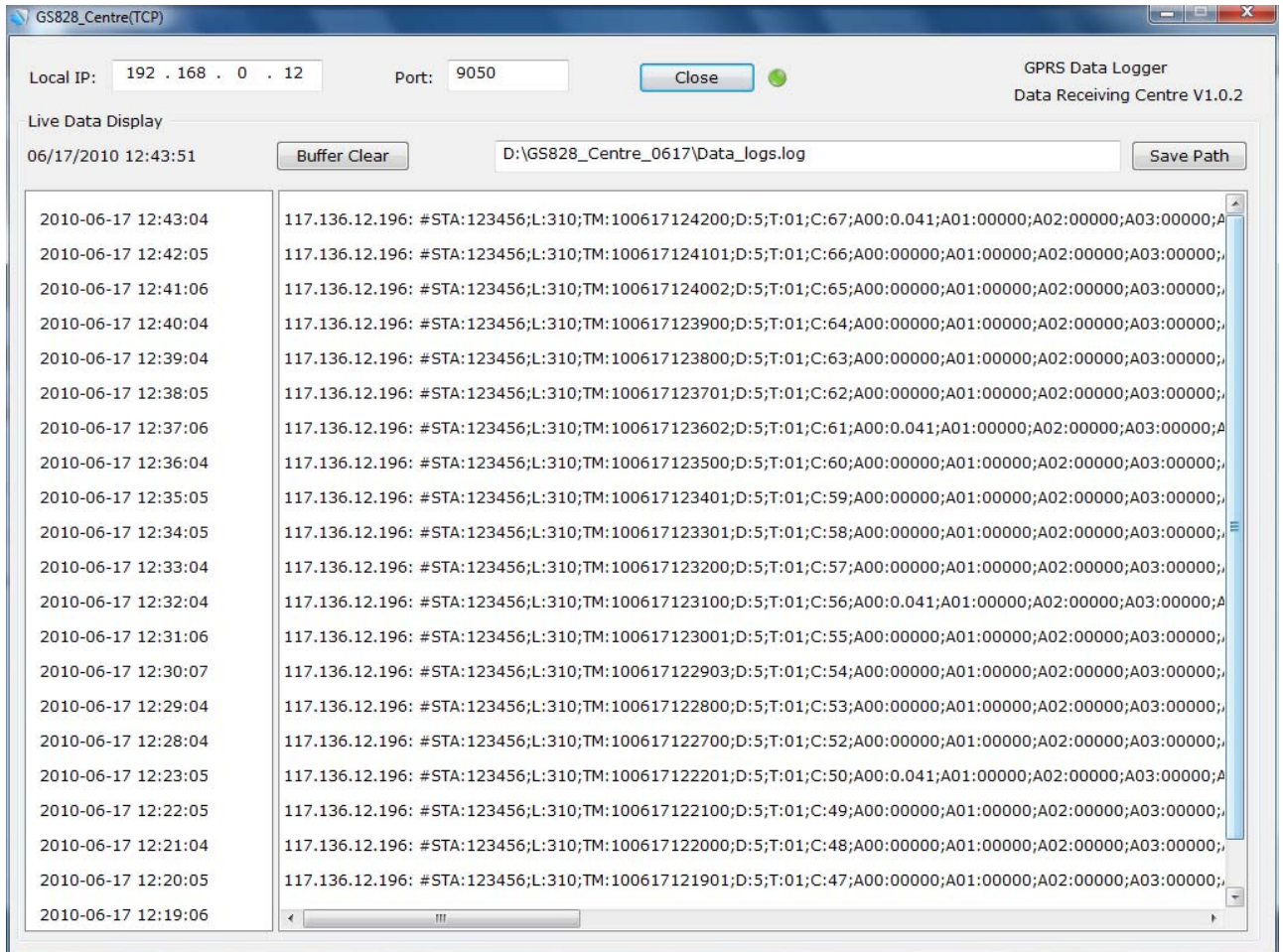
11. Centre [TCP] Setup

Following parameters should be configured in GS828_Centre software:

- Local IP (depending on the LAN setup) will be automatically detected

- Server Port – must be same as configured in GPRS Data Logger

- Click [Listen] to start receiving the data

- Green LED will be ON

12. Receiving Data [TCP]

- Data will be saved in the "Data_Logs.log" text file
- Only one day data will be saved, and overwritten on another day

ⓘ Don't forget to click [Close] before exiting the software. It will release the network port for other applications.