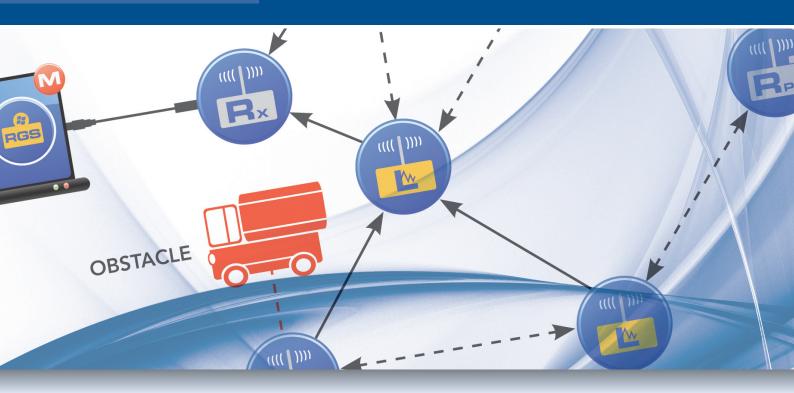


DataSheet Tinytag Radio Logger Software



Tinytag Explorer is the Windows based software for working with a Tinytag Radio System. Users can access their data and manage their system through a simple and intuitive interface.

Radio loggers can be worked with individually or in groups, making it easy to manage a system containing a large number of devices. The software shows the status of each device in a system as well as alarm warnings and low battery indicators.

Data from multiple radio loggers, and other Tinytag data loggers, can be combined into a single graph.

Data can be exported easily from the software in a number of different formats and accessed directly by users who wish to integrate data within their own systems. The software works over existing computer networks and the internet to allow users to remotely manage and view their data.

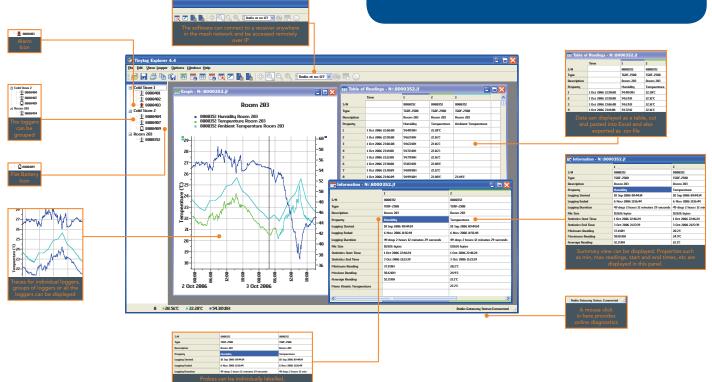
The system can generate e-mail warnings when alarm limits are breached, providing 24 hour coverage.

The software supports the connection of multiple receivers, enabling isolated parts of the same site to be monitored simultaneously, and the wired connection of two receivers to enable communications through barriers that radio waves cannot pass.



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Features

• View data and manage radio loggers remotely

The radio system can be accessed remotely, allowing users to view data and configure radio loggers from their own computer. A Windows service, called the radio gateway, runs in the background behind Tinytag Explorer managing the data from the radio system and enabling remote access for other users on the same network or via the internet.

• Manage groups of loggers simultaneously

Radio loggers can be assigned to groups so that they can be configured or their data viewed collectively rather than having to work with each unit individually. This makes it easy and efficient to manage a system containing a large number of devices.

Identifying loggers

Every radio logger has a unique serial number. Descriptions can be assigned to groups of loggers, individual devices and their different channels to allow users to easily identify their data.

• Alarm warnings

Two programmable alarms for each channel allow upper and lower limits to be set, and a delay can be programmed to allow routine work to be carried out without alarms being triggered (e.g. the loading or unloading of a fridge or walk-in freezer). Alarms show as a flashing icon in the software, and e-mail alerts can be sent to warn users of potential problems 24 hours a day.

Data export and access options

Data can be exported or accessed directly from the radio system in a number of ways, from simple copy and paste from Tinytag Explorer, to Modbus and http access for integration with third party systems (see below for further information).

• Multiple receiver configuration

A master/slave configuration allows additional receivers to be added to a system enabling easy expansion over larger sites. These receivers can be connected to other computers on the same network, or connected through a TCP connection.

• Collate and compare data

Tinytag Explorer enables users to easily combine data from multiple logging runs into a single graph. This allows similar processes to be grouped together or different conditions to be compared. Data can also be displayed in a table and an information view gives the user setup and basic statistical information about the logging run. Daily minimum and maximum values can also be displayed. All of these views are linked, so updating the range of the graph view will automatically update the other views.





Exporting Data

Data can be exported from both Tinytag Explorer and the Radio Gateway.

Tinytag Explorer Exports

Data displayed in the Table of Readings, Information and Daily Min/Max views can be exported from Tinytag Explorer simply by copying and pasting, or by saving files in .xls, .xml, .txt or .csv formats.

Graph images can also be pasted into other documents, or saved as bitmaps.

Radio Gateway Exports - CSV Export

The Radio Gateway provides access to logged measurements for third party software by downloading CSV files over http. Each radio logger in a system has its own unique address and this can be used to obtain full file exports or incremental data for a unit.

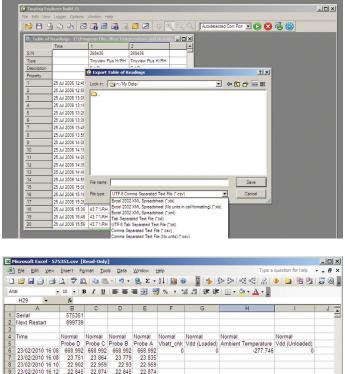
Radio Gateway Exports - Modbus

Ger

DATA LOGGER

The Radio Gateway Service provides a standard Modbus-over-TCP interface, providing read-only access to data logger configuration and instantaneous measurements (instantaneous measurement means the last received logged measurement).

Modbus may be a convenient option for software which uses Tinytag data loggers as part of an industrial process control or SCADA system.



9 23/02/2010 16:12	22.845 22	22.845	22.874				
10 23/02/2010 16:14	22.731 22	.788 22.76	22.788				
11 23/02/2010 16:16	23.016 23	.016 22.987	23.016				
12 23/02/2010 16:18	22.731 22	.788 22.76	22.788				
13 23/02/2010 16:20	22.646 22	22.674	22.674				
14 23/02/2010 16:22	22.503 2	2.56 22.56	22.56				
15 23/02/2010 16:24	22.532 22	.589 22.56	22.56				
16 23/02/2010 16:26	22.446 22	.503 22.503	22.503				
17 23/02/2010 16:28	22.389 22	418 22.389	22.418				
18 23/02/2010 16:30	22.475 22	532 22.503	22.532				
19 23/02/2010 16:32	22.446 22	503 22.503	22,503				
20 23/02/2010 16:34		2.56 22.532					
21 23/02/2010 16:36		731 22.703					
22 23/02/2010 16:38		959 22.959					
23 23/02/2010 16:40		.987 22.959					
24 23/02/2010 16:40		788 22.76					-
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, Probe D, Probe C, Probe B, Probe A, Vbatt chk, Vdd (Loaded), Ambient Temperature, Vdd (Unloaded)							
2010-02-23 16:08:33,668.992,668.992,668.992,668.992,0.000,0.000,-277.746,0.000							
2010-02-23 16:08:33,23.751,23.864,23.779,23.835,,,,							
2010-02-23 16:10:33,22.902,22.959,22.930,22.959,,,,, 2010-02-23 16:12:33,22.845,22.874,22.845,22.874,,							
2010-02-23 16:12133,22.645,22.674,22.645,22.674,,,, 2010-02-23 16:14:33,22.731,22.788,22.760,22.788,							
2010-02-23 16:14:33,22.016;23.006;23.016;23.006;23.0							
2010-02-23 16:16:33,23:016,23:016,22:56,22:56,23:016,7,							
2010-02-23 16:20:33,22.666,22.703,22.674,22.674,,							
2010-02-23 16:22:33,22.503,22.560,22.560,22.560,,							
2010-02-23 16:24:33,22.532,22.589,22.560,22.560,,,,							
2010-02-23 16:26:33,22.446,22.503,22.503,22.503,,,,,							
2010-02-23 16:28:33,22.389,22.418,22.389,22.418,,,,,							
2010-02-23 16:30:33,22.475,22.532,22.503,22.532,,,,							
2010-02-23 16:32:33,22.446,22.503,22.503,22.503,,,,,							
2010-02-23 16:34:33,22.503,22.560,22.582,22.560,,,,							
2010-02-23 16:36:33,22.674,22.731,22.703,22.731,,,,							
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2010-02-23 16:40:33,22.959,22.987,22.959,22.987,,,,							
2010-02-23 16:42:33,22.731,22.788,22.760,22.760,,,,							

2010-02-23 16:42:33,22.731,22.788,22.760,22.760,, 2010-02-23 16:44:33,22.731,22.788,22.788,22.788,2.

Help, press F1



Tinytag Explorer System Requirements

Radio Gateway Service

The Radio Gateway Service requires a computer that can be left running permanently with the following minimum specification:

Operating System:	Windows 2000, XP, Vista or Windows 7			
Processor:	200MHz Pentium III processor or better			
Memory:	512Mb			
Hard Disk Space:	At least 30Mb available			
Monitor for installation:	Minimum 256 colours, resolution 800 x 600			
The requirements for running the Radio Gateway Service on an existing server are shown below.				
CPU time:	Negligible			
Memory:	20Mb			

Hard Disk Space: Typically 10Mb for programs, 5Mb for data.

The service stores a small amount of configuration information in the Windows Registry, in HKEY_LOCAL_ MACHINE/Software/Tinytag/Kola. Cached measurement data and diagnostic logs are stored in C:\Program Files\Tinytag\Tinytag Explorer\var\. These locations should ideally be included in any regular backup, which can be safely taken while the service is running.

Tinytag Explorer

Tinytag Explorer requires a PC with the following specification:

Operating System:	Windows 2000, XP, Vista or 7.		
Browser:	Internet Explorer version 7 or above; Firefox version 2 or above.		
Processor:	200MHz Pentium III processor or better (1.6GHz recommended).		
Memory:	512Mb (1024Mb recommended for Vista & 7).		
Hard Disk Space:	At least 30Mb available hard disk space (120Mb recommended).		
Monitor:	Minimum 256 colours, 800 x 600 resolution or greater recommended.		

The recommended options above should give the user ample performance to run other applications such as MS Excel, Word etc at the same time as Tinytag Explorer.



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Software Licence

Tinytag Explorer is supplied under a site licence which means that it can be installed on as many computers as the customer wishes at a given location (additional copies of the software are required for each additional site the software is used at).

To view the full software licence, please visit our web site here:

http://www.tinytag.info/info/tinytag-explorer-licence-agreement

Approvals

Gemini Data Loggers (UK) Ltd. operates Quality and Environmental Management Systems which conform to ISO 9001 and ISO 14001. The scope of these systems covers the manufacture, design and supply of data loggers and their associated software, accessories and services.





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