

MAGUIRE

TCP/IP Settings for Maguire G2 Software

Why do you need TCP/IP?

TCP/IP is a set of networking protocols used on computer networks and the Internet that provides communications across interconnected networks made up of computers with diverse hardware architectures and various operating systems. TCP/IP includes standards for how computers communicate and conventions for connecting networks and routing traffic. Transmission Control Protocol/Internet Protocol is abbreviated to TCP/IP.

G2 and TCP/IP

G2 software uses this protocol to communicate between the Server software module and the Client software module of the G2 software. This protocol is required in any G2 installation, whether there is only 1 computer that is standalone connected to the blenders or the computer connected to the blenders is part of a large computer network with multiple G2 clients accessing the G2 Server's databases. The G2 Server module is the software that is installed on the computer connected to the blenders by the black signal amplifier. The G2 Client software is the operator interface, which allows users to send and receive information to and from the blenders. The Client software is installed with every G2 Server installation although the Client software may be installed without the Server. Usually there is only one server software but there can be as many clients as a customer chooses installed on each computer requiring access to and information from the blenders. In order for the G2 software to operate correctly it is required that the computer the server software is installed upon has the TCP/IP protocol installed. A fixed IP address is not necessary. Technically an IP address is an ID number for that specific computer that can be easily identified when communicating in TCP/IP however, not specifying an IP address does not prevent the G2 Client from communicating with the G2 Server.

G2 Installations on a Standalone PC

The installation of TCP/IP is required for standalone computers as much as it is for networked computers so that the Client software can readily talk with the Server software. In many cases, computers already have a dialup adapter installed as well as the TCP/IP protocol. To verify that TCP/IP is installed on your computer right click on the Network Places icon on your screen and then from the menu select properties. Double-click "Local Area Connection", then click Properties. If you see TCP/IP in the list then your computer is ready to use the G2 Server/Client software. If you do not see TCP/IP you will need to install this protocol before using the G2 software. Before TCP/IP can be install an adapter must be install. The adapter can be a network card, a modem or a Dialup Adapter. If any of these adapters are present then TCP/IP can be installed. If none are present then installing the Dialup Adapter is the simplest to add. To install the Dialup Adapter, click Add or Install (depending on the operating system), select Adapter, click Add, select Microsoft under Manufacturers, select Dialup Adapter under Network Adapters and click OK. In Windows 2000 click the Start button, click settings then Network and Dial-up Connections. Select Dial-up to Internet. Follow the wizard and when prompted for a phone number to dial out with, if you do not have an Internet Service Provider to use, just enter any number. The purpose of adding Dial-up is to install the TCP/IP protocol. In most cases, installing an adapter also install the TCP/IP protocol. For additional information on setting up and

configuring a network review the **Gravimetric Gateway™** manual in section **VIII. Network Installation and Configuration.**

Getting to Know G2

The Gravimetric Gateway™ Server/Client Software is designed to be easy to use and understand although a basic understanding is necessary to properly operate the software and communicate with the Maguire Weigh Scale Blenders. If this is your first time operating the G2 software it is best to review in the Gravimetric Gateway™ manual, section **X. Quick Start - Using the G2 Server.** This tutorial will guide you through setting up your G2 software for the first time.

Backing up the G2 Databases

All databases containing entered data or collected data within the Gravimetric Gateway™ software are stored in one central location on the G2 Server computer. *Note: if the G2 Client was installed on a different computer it would not contain any important data that would require backing up. Only the G2 Server should be backed up.* The location of these databases on the G2 Server by default during the installation is `c:\g2\g2data` however this location may be changed during the G2 installation. Generally backing up the entire `g2data` folder will backup everything that is important. More specifically there are two types of files within the `c:\g2\g2data` directory that should be backed up periodically. Each G2 database consists of two files that have extensions of "`key`" and "`data`". Example: "`MaterialUsage.key` and `MaterialUsage.data`" is your Material Usage database. It is up to the customer to maintain backup copies of the databases. Copying all files location within `c:\g2\g2data` to a safe location or including these files in your backup routine will ensure a safeguard against data loss. This data may be moved or placed in a new installation of G2 by installing G2 first and then copying all or some of the data files into the G2 data directory. **Note:** Do not copy the `Language.key` and `Language.data` files to a new installation as these are updated with newer installations.

For additional information on the operation and configuration of all Gravimetric Gateway™ Server or Client systems please review your Gravimetric Gateway™ manual. Copies of the Gravimetric Gateway™ manual are available on the Gravimetric Gateway™ CD-ROM and also available for download from the Internet at <http://www.maguire.com/g2>.

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