

WSB Communications Product Guide



OVERVIEW

Our communication packages make possible a rapid two-way connection...



HOW IT WORKS

Total control of a processors most expensive operational cost – raw materials...



PRODUCT INFORMATION

Full product information for options, accessories and specification...



CONTACT

Find out where your local distribution location is...

COMPLETE MANAGEMENT & TOTAL CONTROL

MAGUIRE[®]
Intelligent Simplicity

Communications

for the Maguire Weigh Scale Blender

Rapid two-way connection between a PC and the controllers of Maguire Weigh Scale Blenders.

Integration

Gain full control of your Maguire WSB range; Use the G2 software as part of your materials management or simply connect to an industrial network or Fieldbus environment.

Control

Each material is precisely measured and dispensed to your required recipe to within $\pm 0.1\%$ accuracy on a 1% setting. This eliminates over-coloring and increases control over product quality and consistency.

Materials savings

While raw materials can account for up to 70% of plastics processors costs our blenders measure right down to a 10th of a gram for every material dispensed, reducing operating costs, improving efficiency and increasing profitability.



MORE CONTROL · MORE OPTIONS · MORE MARGIN

FEATURES

G2 Gateway Software

Utilize materials usage data to its fullest.

5 simple steps to total control

1. Raw materials list

Compile an extensive database of raw materials used in production.

2. Recipe list

Recipes can easily be built and updated from the raw materials list. Up to 35,000 recipes can be stored, saving production time, ensuring consistency and to act as a historical reference.

3. Send recipe to blender

Simply send your recipe to the blender by clicking 'Send to Blender' from the Client screen.

4. See live results on blender progress

Gain an instant window on your production, at any time, on any blender. View production information such as:

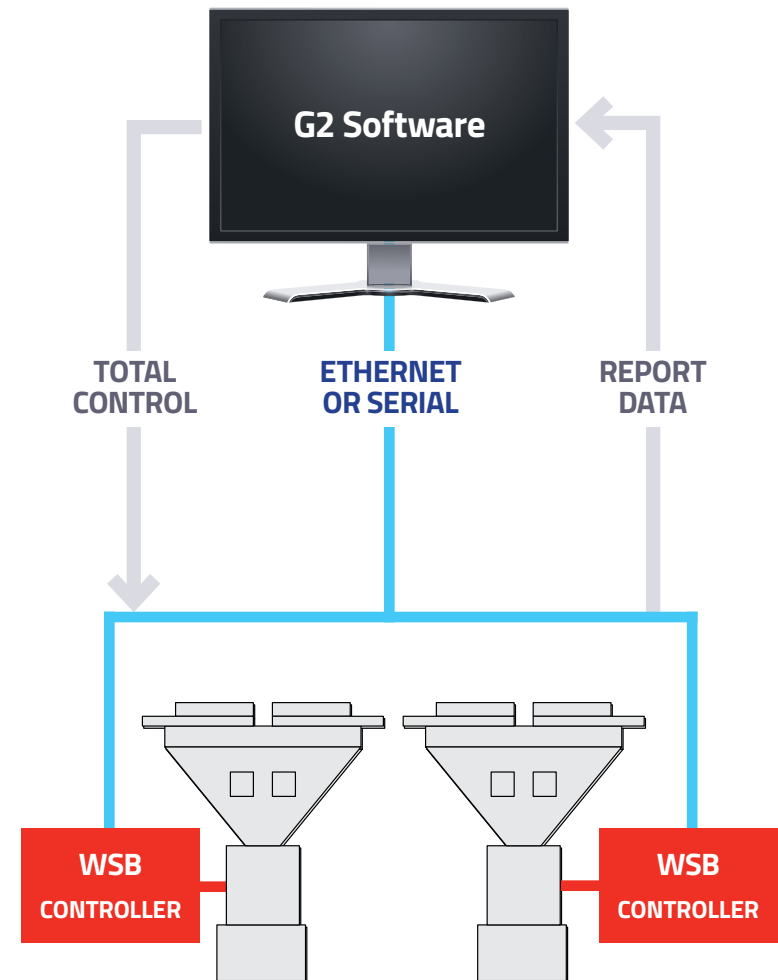
- Work order
- Operator
- Material settings
- Status of material consumed by time or other parameters.

5. Run reports

Usage reports can be generated on combinations of criteria to help operators troubleshoot, resolve product quality issues and plan future jobs more easily. Run reports on criteria such as time, date, blender ID number, part number, work order number, operator number, recipe number and material type.

**This advanced technology enables manufacturers to control the single largest cost factor in plastics processing today...
*raw materials***

COMPLETE MANAGEMENT & TOTAL CONTROL



Maguire reserves the right to cancel product or change product, product specifications and data without notice to improve reliability, function, design or otherwise.

G2 Client Software

Take control and connect using your own IT system or fieldbus system, or use our off-the-shelf G2 software to simply plug-in and run.

G2 software program

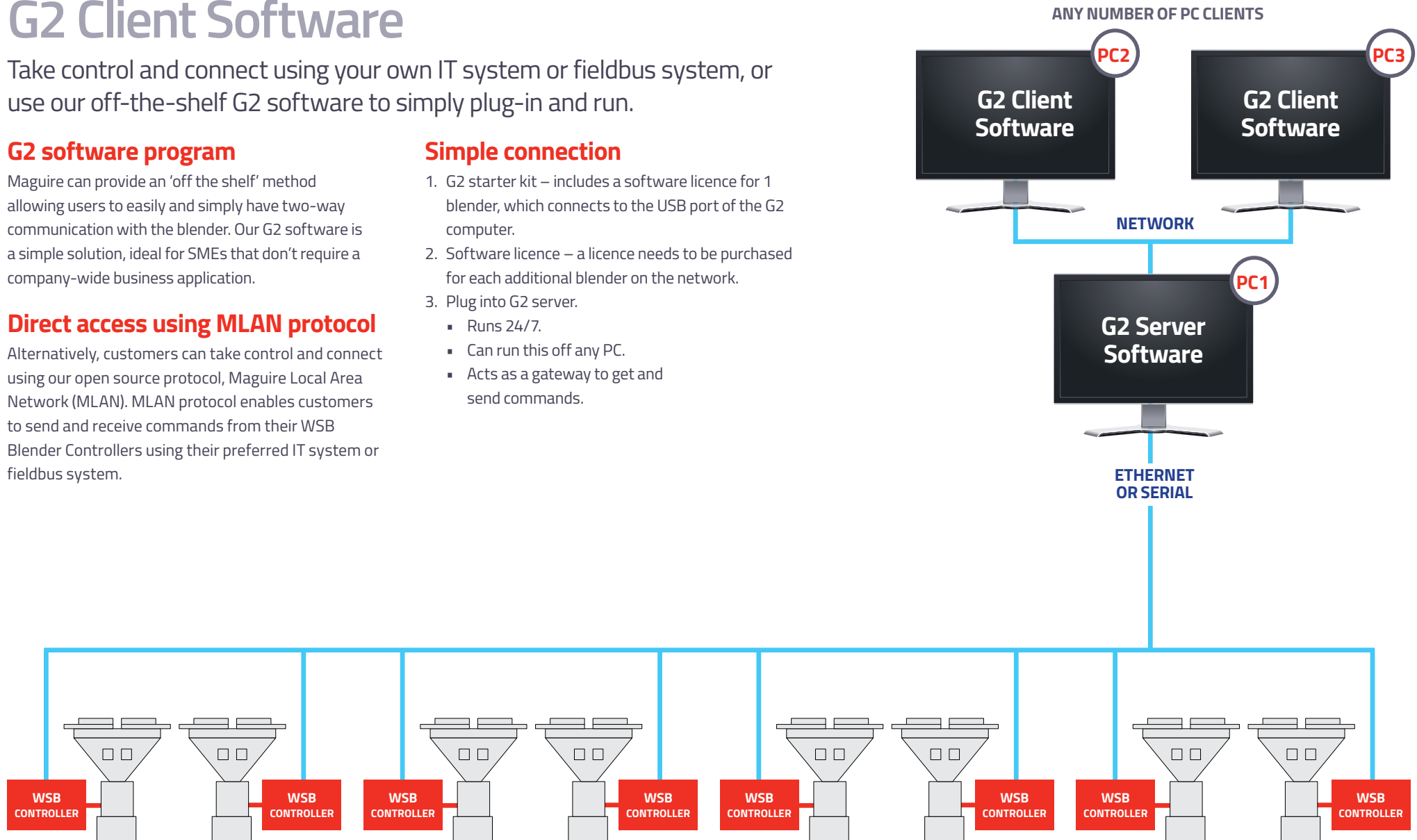
Maguire can provide an 'off the shelf' method allowing users to easily and simply have two-way communication with the blender. Our G2 software is a simple solution, ideal for SMEs that don't require a company-wide business application.

Direct access using MLAN protocol

Alternatively, customers can take control and connect using our open source protocol, Maguire Local Area Network (MLAN). MLAN protocol enables customers to send and receive commands from their WSB Blender Controllers using their preferred IT system or fieldbus system.

Simple connection

1. G2 starter kit – includes a software licence for 1 blender, which connects to the USB port of the G2 computer.
2. Software licence – a licence needs to be purchased for each additional blender on the network.
3. Plug into G2 server.
 - Runs 24/7.
 - Can run this off any PC.
 - Acts as a gateway to get and send commands.



Third Party Communications

Maguire can provide several methods to allow customers to connect their blenders to other systems.

Applications

These include **Central PLC Control Panels**, **SCADA systems**, **Plant Wide Control Systems**, or **Accounting Systems** managing materials stocks. Examples of these have included:



Networking

Connections can either be at a software level utilizing **SQL** or **OPC** based links, or alternatively machine to machine communications via Maguire's open source MLAN protocol, or industry leading fieldbus protocols such as **Industrial Ethernet**, **Profibus**, **DeviceNet** and **Modbus TCP/IP**. Examples of these have included:



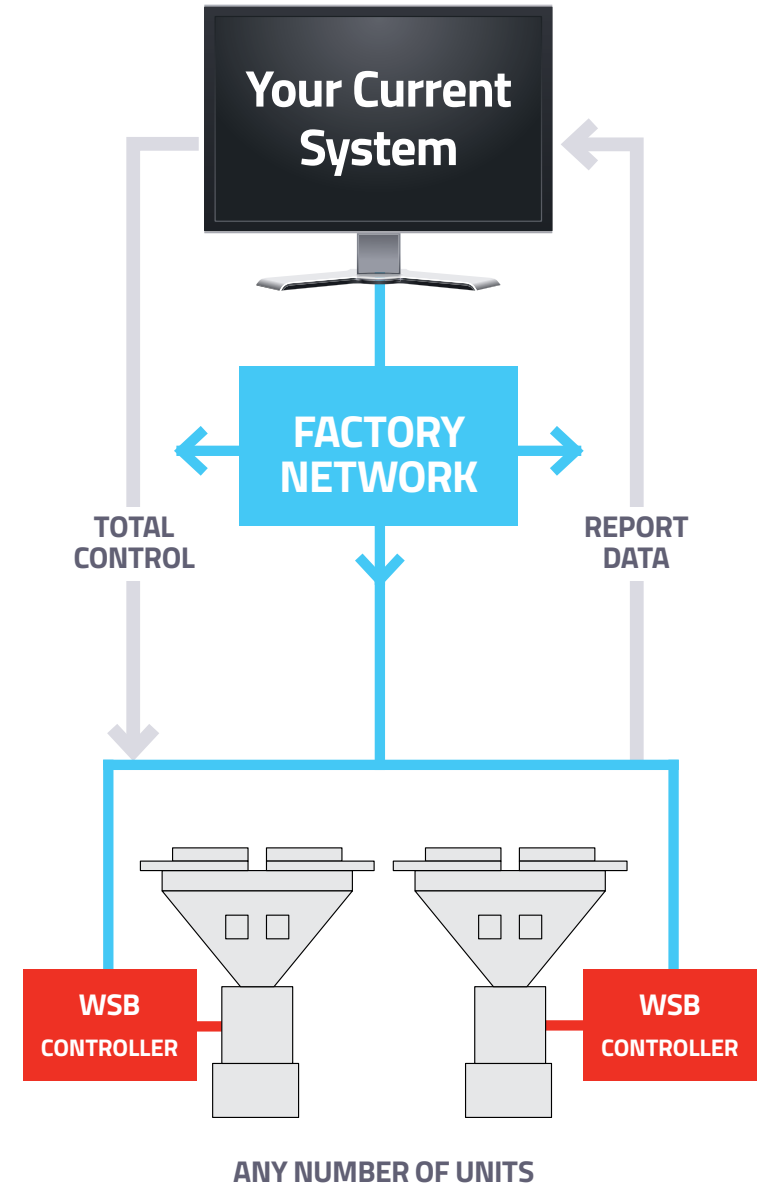
The Benefits

The value of integrated data for proper production planning and control contributes enormously to the planning and control of most plastics processors' largest cost – raw materials. By proper, active reporting Maguire blenders provide precise information on materials consumption allowing for better control of inventory, improved purchase planning, quality control, data for ISO and proper planning for job costing.



KEPServerEX – Communications Platform

KEPServerEX and the U-CON (User-Configurable) Driver are flexible and scalable solutions for connecting, managing, monitoring, and controlling automation devices that support the protocol. Client communications are managed through a robust platform that supports an array of open standards, proprietary communication protocols, APIs, and automation system interfaces. KEPServerEX improves operations and decision-making throughout all levels of an organization.



G2 and MySQL®

The Maguire G2 database can be located in a MySQL database server to allow customers to connect to third party interfaces, such as SAP, that connect to a MySQL database. MySQL is a stable, reliable and powerful solution with advanced features.

Ease of use

MySQL is easy to install and create recipes from. It can simply be added to many third-party tools that can be connected to the database.

Free installation

Should customers want to use MySQL with G2, installation is free and easily accessible.

Universal platform

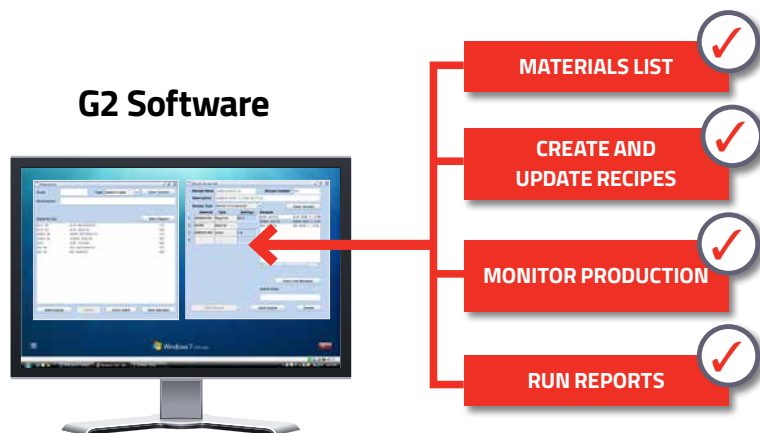
The database is compatible with virtually every operating system to enable you to integrate with your current systems.

Extremely powerful, secure and scalable

MySQL is the de-facto standard for high-traffic websites because of its high performance query engine, fast data insert capability and strong support for specialised web functions like fast full text searches.

Flexibility

On-demand flexibility is a key feature of MySQL. This open source solution allows complete customization to those with unique database server requirements.



Anybus Gateway

Anybus provides two-way communication between all Maguire Weigh Scale Blender's MLAN protocol and 15 major networks.

Seamless configuration

Anybus provide seamless conversion from MLAN Protocol to these 15 major fieldbus and industrial Ethernet networks:

- Fieldbus versions: Profibus, CANopen, CC-Link, ControlNet, DeviceNet, FIPIO, Interbus, Modbus Plus, Modbus RTU.
- Ethernet versions: EtherNet/IP, Modbus TCP, EtherCAT, Profinet, CC-Link IE Field, EtherNet/IP/MTCP 2-port.

Compatibility

Compatible with all leading PLCs from manufacturers such as Siemens, Allen Bradley, Schneider etc.

Control

Remote access to blender display and start/stop of dispensing.

Clear materials reporting

Collect accurate material usage consumption totals per component, aiding purchasing and improving raw materials control.

Easy set up

Easily create set and get setpoints, types and parameters according to your requirements.

Accessibility

Access to all 47 MLAN commands through Anybus Communicator.

Take a demo at: www.maguire.com/page.php/downloads





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