

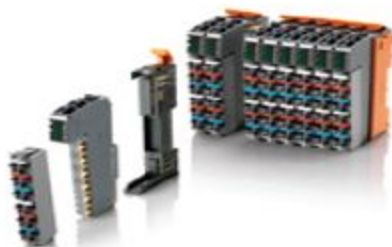
# Gravitrol Upgrades

from Process Control Corporation

## New Upgrades for Gravitrol Extrusion Control Systems



EXB2 Touch Screen Interface



B&R Drive and Line Speed Control Modules



HGB Series Weigh Hoppers

Process Control offers a new selection of upgrades for Gravitrol, including a color touch screen controller, B&R Drive Module & Line Speed Control Module, and a DSP weigh module upgrade kit, that will improve performance and longevity. These upgrades not only add years to your Gravitrol's life, but can actually improve your accuracy as well. Additionally, the upgrades offer a way to simplify the process and postpone future replacement, making operation easier and saving you money all at once. Your older Gravitrol systems controls, drive modules, and weigh module chips are facing the threat of becoming obsolete; ensure that will not happen by upgrading today.



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# Color Touch Screen Controller Upgrade



Old Gravitrol Interface



New EXB2 Interface

## STANDARD FEATURES

- ▶ Off-the-shelf solution with PLC Controls
- ▶ Direct drop in panels and cabling
- ▶ Intuitive color touch screen interface
- ▶ Ability to save configuration to XML
- ▶ Remote control by PC via VNC compatible Ethernet connection, with embedded OPC Server
- ▶ Touch screen replaces old operator interface in existing enclosure
- ▶ Saves and restores configuration data and recipes to USB drive
- ▶ Alarm notification via email or SMS text messaging
- ▶ Option for a calculated rate vs. speed when a new recipe is entered
- ▶ Standard Ethernet port
- ▶ Ability to download settings and log files over a network via FTP connection
- ▶ Advanced control loop for increased accuracy
- ▶ Ability to show in real time the actual blender and each hopper set and actual metering rate

## OPERATOR STATION UPGRADE

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EXB2 - Touchscreen Replacement for EXB Gravitrol Computer  
Please contact PCC Sales Dept for pricing.

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# Drive Module Upgrade



Old EXD/EXL Drive Module



B&R Drive & Line Speed Control Module

## DRIVE MODULE UPGRADE

Replace your aging, PCC proprietary Drive & line speed modules with a PLC based, off-the-shelf package.

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Extruder Drive Control using either B&R or Allen Bradley PLC through comms:

Up to 4 Extruders

Up to 8 Extruders

Up to 3 Extruders with Line Speed Control, One Encoder

Up to 7 Extruders with Line Speed Control, One Encoder

Please contact PCC Sales Dept for pricing.

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# Weigh Module Upgrade



Old Single Weigh Module Chip



New Single Weigh Module Chip

## WEIGH MODULE UPGRADE

The "blue chip" Analog weigh modules are considered obsolete so upgrading to our latest DSP weigh modules is highly recommended. They incorporate an improved, multilayer, low pass filter for noise and vibration that is adjustable for each channel. With improved usable resolution and temperature drift, metering rates can be controlled more accurately, down to 0.25 PPH. The new module is also easier to configure, with improved recovery from static interference, service and repair are practically eliminated.

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Please contact PCC Sales Dept for upgrade pricing.

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# Questionnaire

## Gravitrol Questions

Model Number \_\_\_\_\_

Serial Number \_\_\_\_\_

Date of Manufacture \_\_\_\_\_

How many hoppers does the existing system have? \_\_\_\_\_

Do the hoppers have old "blue" weigh module chips? \_\_\_\_\_

Does the system have PCC/proprietary drive modules? \_\_\_\_\_

## Process Questions

Materials Used \_\_\_\_\_

Output Range \_\_\_\_\_

Installed Options \_\_\_\_\_

Extruder Make \_\_\_\_\_

End Product \_\_\_\_\_

Extrusion Process \_\_\_\_\_

## Service Support

Phone Support Package? \_\_\_\_\_ or Service Engineer Visit? \_\_\_\_\_

## Customer Info

Company \_\_\_\_\_

Address \_\_\_\_\_

City, State Zip \_\_\_\_\_

Contact \_\_\_\_\_

Phone Number \_\_\_\_\_

Fax Number \_\_\_\_\_

Email Address \_\_\_\_\_

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