

EGCP-3 LS
8406-113

**Using an EGCP-3 in a Single-Phase
Zig Zag Generator Application**

EGCP-3 Software Change Information for Control 8406-113

Introduction

Woodward is releasing application software **5418-144G.SCP** for upgrading existing EGCP-3 controls in the field. This application note describes the changes made in the software and the process to upgrade the software in the control.

The software can be used to upgrade these existing controls.

- 8406-113 B, C, D, E, or F can be upgraded to 8406-113 G (this converts software 5418-144 A, B, C, D, E, or F to 5418-144 G).

IMPORTANT	This change would only be needed for applications that are using single-phase Zig Zag generator configurations.
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Description of Software Changes

A new generator configuration type was added for a Zig Zag configuration. The settings “Gen PT Configuration” and “Bus PT Configuration” now have three choices:

- Line to Line
- Line to Neutral
- Zig Zag

Figures 2 and 3 show the PT and CT wiring for this configuration.

On the EGCP-3 display, the control will still show both Line to Line and Line to Neutral voltages, but when configured for a Zig Zag configuration, these two readings will be identical. The EGCP-3 cannot truly sense the generator neutral, so the Line to Neutral reading will not show 50% of the Line to Line voltage.

Figure 1 shows typical values that would be seen on the Generators Status screen.

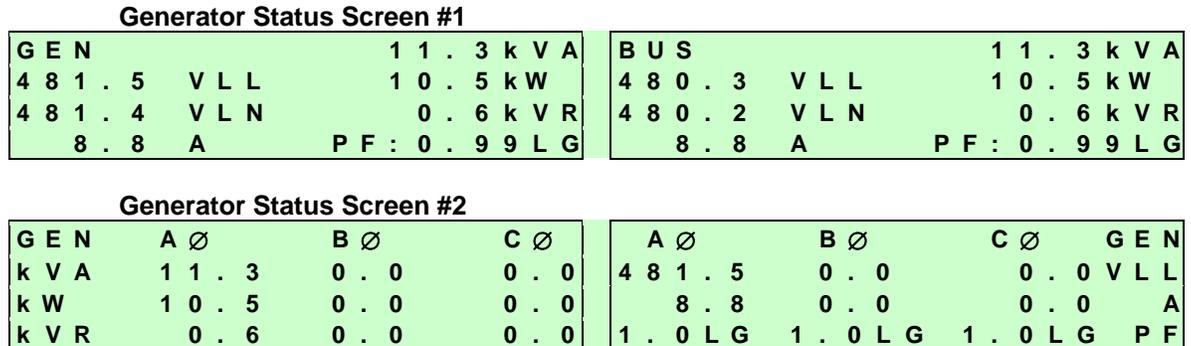


Figure 1. Generator Status Screens

Download Instructions

This section provides instructions for downloading the 5418144G.SCP software needed to upgrade the 8406-113.

IMPORTANT

Loading the Application software may change some or all of the Configuration set points. These setpoints should be saved to a File before upgrading the unit.

WARNING

An unsafe condition could occur with improper use of these software tools. Only trained personnel should have access to these tools.

Requirements

- Nine pin DB9 Null Modem cable.
- Woodward Watch Window Professional Software. This program is available on the Woodward website (www.woodward.com) for a five day trial. A license can be purchased for extended use.