Altronic, Inc.

Service Bulletin

Date: 4-2-04

Subject: GOV “Local” and “Remote” Control

There are various MODES to control the speed of the engine using the GOV-10/50.

LOCAL control is defined as coming from the Display Module.

REMOTE control is defined as being controlled from a 4-20mA loop input.

A third control method, the **MODRTU** selection, is possible by sending the GOV a serial command to the MODBUS RTU register.

When the display setting for Remote RPM = OFF, local control is always used and the display reads LOCAL.

When the display setting for Remote RPM = ON, digital input 1 can be energized to force control back to the local setpoint. (LOCAL+)

When the display setting for Remote RPM = ON, and digital input 1 is not connected, or de-energized, you get remote control if there is a valid signal, otherwise you get the local setpoint by default, LOCAL*.

Using a combination of these selections can enable a transition from a REMOTE (LOOP) setting to a LOCAL+ setting by simply energizing digital input 1. (It is first necessary to turn the “Remote RPM -> ON”, Section 9.3 of OM under “Setup Screens”) When digital input 1 is energized the display module will show LOCAL+, and when it is de-energized it will show LOOP. If the LOOP input should be lost, the display will show LOCAL* regardless of the status of digital input 1.

A typical startup will allow the GOV to bring the engine up to the “MIN RPM” until the “WarmupSEC” have expired. Once this timer has expired (or the timer has been cancelled by momentarily energizing Digital Input 2) the GOV will ramp the engine up to the RPM setting which has been chosen by the selection of REMOTE “ON” or “OFF”. If the Remote is “ON”, the LOCAL control can be temporarily selected by energizing digital input 1. Once digital input 1 is turned OFF, the control reverts to remote control (LOOP) and the GOV will control to the RPM setting as dictated by this loop input. Section 7.3 of the OM provides further details on this subject.