IC Fire Pump Pressure Governors have been designed and extensively tested to exceed industry performance and reliability standards.

IC Governors are a drop-in replacement for the Pump Boss.

Innovative Controls Inc.
Fire Pump Pressure Governors
The Throttle Ready indicator shows the status of the Throttle Ready interlock input. This indicator is green when the Throttle Ready input is active.

The Status Display shows the interlock conditions, governor mode of operation, operator information, engine and transmission conditions, and system alarm information.

The Engine Speed Display shows the engine speed in revolutions per minute (RPM).

The OK To Pump indicator shows the status of the OK To Pump interlock input. This indicator is green when both the Throttle Ready and Pump Engaged inputs are active, or when the OK To Pump input is active and the configuration parameter is set to OK2PUMP.

The Transmission Temperature indicator changes color to show the state of the transmission temperature. Green indicates normal temperature, yellow when the temperature is in the warning range, and red when the temperature is critically high. The engine coolant temperature indicator can be configured to operate from standard J1939 diagnostic message failure mode identifiers or from user defined setpoints.

The Pressure Button places the FPG in pressure control mode. The LED is green when the FPG is in pressure control mode. On the 3050621 and 3050622 models of the FPG, holding the pressure mode button while pressure mode is engaged will display status messages on the status display.

The Preset Button is used to automatically set the pressure or speed mode setpoints to their configured value. Preset operation in speed mode can be enabled or disabled in the configuration menu.

The Pump Pressure or Engine Speed setpoint is controlled by the + and – buttons on the 3050621 and 3050622 models of the FPG. The + and – buttons are also used to adjust configuration settings when the FPG is in the configuration menu mode.

The Battery Voltage indicator changes color to show the state of the vehicle system voltage. Green indicates normal battery voltage of 12.5V or greater, yellow when the voltage is in the warning range between 11.9 and 12.5VDC, and red when the voltage is critically low at 11.8VDC or less.

The RPM Button places the FPG in speed control mode. The LED indicator is green when the FPG is in speed control mode. On the 3050621 and 3050622 models of the FPG, holding the RPM mode button while RPM mode is engaged will display status messages on the status display.

The Pump Discharge Pressure Display shows the pump pressure in PSI, kPa, MPa, or bar as measured by the discharge sensor.

The Status Button is used to display status messages on the status display. The status button is available on the 3050623 and 3050624 models of the FPG.

The Engine Coolant Temperature indicator changes color to show the state of the engine temperature. Green indicates normal temperature, yellow when the temperature is in the warning range, and red when the temperature is critically high. The engine coolant temperature indicator can be configured to operate from standard J1939 diagnostic message failure mode identifiers or from user defined setpoints.

The Engine Oil Pressure indicator changes color to show the state of the engine oil pressure. Green indicates normal oil pressure, yellow when the oil pressure is in the warning range, and red when the oil pressure is critically low. The engine oil pressure indicator can be configured to operate from standard J1939 diagnostic message failure mode identifiers or from user defined setpoints.

The Throttle Ready indicator shows the status of the Throttle Ready interlock input. This indicator is green when the Throttle Ready input is active.

The Status Display shows the interlock conditions, governor mode of operation, operator information, engine and transmission conditions, and system alarm information.

The Engine Speed Display shows the engine speed in revolutions per minute (RPM).

The OK To Pump indicator shows the status of the OK To Pump interlock input. This indicator is green when both the Throttle Ready and Pump Engaged inputs are active, or when the OK To Pump input is active and the configuration parameter is set to OK2PUMP.

The Transmission Temperature indicator changes color to show the state of the transmission temperature. Green indicates normal temperature, yellow when the temperature is in the warning range, and red when the temperature is critically high. The engine coolant temperature indicator can be configured to operate from standard J1939 diagnostic message failure mode identifiers or from user defined setpoints.

The Battery Voltage indicator changes color to show the state of the vehicle system voltage. Green indicates normal battery voltage of 12.5V or greater, yellow when the voltage is in the warning range between 11.9 and 12.5VDC, and red when the voltage is critically low at 11.8VDC or less.

The RPM Button places the FPG in speed control mode. The LED indicator is green when the FPG is in speed control mode. On the 3050621 and 3050622 models of the FPG, holding the RPM mode button while RPM mode is engaged will display status messages on the status display.

The Pump Discharge Pressure Display shows the pump pressure in PSI, kPa, MPa, or bar as measured by the discharge sensor.

The Status Button is used to display status messages on the status display. The status button is available on the 3050623 and 3050624 models of the FPG.
Innovative Controls Inc.
Fire Pump Pressure Governors

Model Part Number 3050621
Governor with Pushbutton + / - Control
## Innovative Controls Inc.

### Fire Pump Pressure Governors

**Model Part Number 3050623**  
Governor with Rotary Knob +/- Control

<table>
<thead>
<tr>
<th>Measurement</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.30</td>
<td></td>
</tr>
<tr>
<td>1.40</td>
<td></td>
</tr>
<tr>
<td>5.25</td>
<td></td>
</tr>
<tr>
<td>7.32</td>
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</tbody>
</table>
Innovative Controls Inc.
Fire Pump Pressure Governors

Model Part Number  3050624
Governor with Rotary Knob + / - Control and Intake Sensor Input
<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
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<tbody>
<tr>
<td>4000677-01</td>
<td>Power and CAN Interface Cable</td>
</tr>
<tr>
<td>4000677-02</td>
<td>Sensor and Interlocks Interface Cable</td>
</tr>
<tr>
<td>4000677-03</td>
<td>Sensor and Interlocks Interface Cable for Analog Control</td>
</tr>
<tr>
<td>4000677-04</td>
<td>Power and CAN Interface Cable with Intake Sensor</td>
</tr>
<tr>
<td>4000677-05</td>
<td>Power and CAN Interface Cable with IC J1939</td>
</tr>
<tr>
<td>4000677-06</td>
<td>Power and CAN Interface Cable with IC J1939 and Intake Sensor</td>
</tr>
<tr>
<td>3050471</td>
<td>0 to 300psi Pressure Transducer</td>
</tr>
<tr>
<td>3050472</td>
<td>0 to 600psi Pressure Transducer</td>
</tr>
<tr>
<td>3050473</td>
<td>-30 to 300psi Pressure Transducer</td>
</tr>
<tr>
<td>3050474</td>
<td>-30 to 600psi Pressure Transducer</td>
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</tbody>
</table>

**IC Pressure Governor w/ Pushbutton +/- System Kit**
Includes:
- Pressure Governor 3050622
- 0-300 psi Pressure Transducer 3050471
- Power & CAN Interface Cable 4000677-01
- Sensor and Interlocks Interface Cable 4000677-02

**IC Pressure Governor w/ Rotary Knob +/- System Kit**
Includes:
- Pressure Governor 3050624
- 0-300 psi Pressure Transducer 3050471
- Power & CAN Interface Cable 4000677-01
- Sensor and Interlocks Interface Cable 4000677-02

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Innovative Controls Inc.
Fire Pump Pressure Governors
CABLE ASSEMBLIES

<table>
<thead>
<tr>
<th>CABLE ASSEMBLY DESCRIPTION</th>
<th>IC PART NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cable Assembly, Fire Pressure Governor Power and CAN Interface Cable</td>
<td>4000675-01</td>
</tr>
<tr>
<td>Cable Assembly, Fire Pressure Governor Sensor and Interlocks Interface Cable</td>
<td>4000675-02</td>
</tr>
<tr>
<td>Cable Assembly, Fire Pressure Governor Power and CAN Interface Cable for Analog Control</td>
<td>4000675-03</td>
</tr>
<tr>
<td>Cable Assembly, Fire Pressure Governor Power and CAN Interface Cable with Intake Sensor</td>
<td>4000675-04</td>
</tr>
<tr>
<td>Cable Assembly, Fire Pressure Governor Power and CAN Interface Cable with IC J1939</td>
<td>4000675-05</td>
</tr>
<tr>
<td>Cable Assembly, Fire Pressure Governor Power and CAN Interface Cable with IC J1939 and Intake Sensor</td>
<td>4000675-06</td>
</tr>
</tbody>
</table>

**Sensors**

- Programmable High Idle Operation
- J1939 CAN Bus Engine Information and Control
- Retains Warning History
- Interlock Signal Recognition with LED Indicators
- NFPA Interlock Signal LED Indicators

**Features**

- Automatic or Manual Control of Pump Discharge Pressure or Engine Speed
- Large Control Knob or Increase and Decrease Buttons are Easy to Operate with a Gloved Hand
- Programmable Preset, Interlocks, Units, and Alarm Settings
- Automatic or Manual Control of Pump Discharge Pressure or Engine Speed
- Automatically Limits Increase of Pressure when in RPM Mode
- NFPA Interlock Signal LED Indicators
- Interlock Signal Recognition with LED Indicators
- Retains Warning History
- J1939 CAN Bus Engine Information and Control
- Programmable High Idle Operation

**Models**

- **Governor with Push Button +/-**: 3050621
- **Governor with Push Button +/- w/ Intake Sensor Input**: 3050622
- **Governor with Knob + / - Controller**: 3050623
- **Governor with Knob Controller w/ Intake Sensor Input**: 3050624

**Engines**

- Cummins J1939
- Detroit Diesel
- Scania
- Navistar
- Ford
- Cat J1939
- Generic Analog Interface

**Sensors**

- 0 to 300 psi, Sealed Gauge or Absolute, Male 1/4" NPT, 0.5V To 4.5V Output, 5V Supply, +/- 0.5% Accuracy, Metri-pack 150 Connector
- 0 to 600 psi, Sealed Gauge or Absolute, Male 1/4" NPT, 0.5V To 4.5V Output, 5V Supply, +/- 0.5% Accuracy, Metri-pack 150 Connector
- 300 psi and 600 psi pressure sensors are discharge sensors. - 300 psi and 600 psi pressure sensors are intake sensors.

**IC Parts**

- Models 3050621 and 3050623
- Models 3050621, 3050622, 3050623, and 3050624
High Battery Voltage
Low Battery Voltage
Low Transmission Temperature
High Engine Coolant Temperature
Out of Water (visual alarm only)
No Engine Response (visual alarm only)
Check Engine Switch On
Throttle read LED
Ok To Pump LED

Sensor and Interlock Connector (used on all models): Deutsch DT15-12PA Connector

Status Indicators
Engine RPM, four daylight bright LED digits more than 1/2" high
Check engine, stop engine warning messages
Engine oil pressure; shown on a tricolor green/yellow/red icon
Engine coolant Temp; shown on a tricolor green/yellow/red icon
Transmission Temp; shown on a tricolor green/yellow/red icon
Battery voltage; shown on a tricolor green/yellow/red icon
Pressure and RPM operating modes
Alarm LED/Pin Setting
Throttle ready LED
Ok To Pump LED

Warning Messages and Indicators
High Battery Voltage
Low Battery Voltage
Low Transmission Temperature
High Engine Coolant Temperature
Out of Water (visual alarm only)
No Engine Response (visual alarm only)
Check Engine Switch On
Throttle read LED
Ok To Pump LED

Warning Messages and Indicators
High Battery Voltage
Low Battery Voltage
Low Transmission Temperature
High Engine Coolant Temperature
Out of Water (visual alarm only)
No Engine Response (visual alarm only)
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