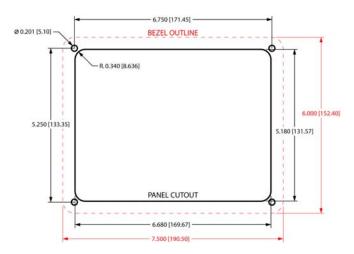


Total Pressure Governor *Plus* (TPG+) OEM Quick Manual

INSTALLATION

Mount the TPG+ on the operator's panel with four #10 screws. The dimensions in the detail below are in inches [millimeters].



DISCHARGE PRESSURE TRANSDUCER INSTALLATION

Install the 300 psi (2068 kPa, 20 bar) discharge pressure transducer (p/n 113557) on the discharge side of the pump. The pressure connection is a $\frac{1}{4}$ -18 NPT male port. A 'T' fitting can be used to share the pressure gauge outlet on the discharge manifold.

INTAKE PRESSURE TRANSDUCER INSTALLATION

Install the 300 psi (2068 kPa, 20 bar) intake pressure transducer (p/n 113557) on the intake side of the pump. The pressure connection is a ¼-18 NPT male port.

VERIFY ENGINE RPM

Verify proper J1939 CAN connection to the engine's ECM by monitoring the RPM display of the TPG+ while the engine is running. The display should show accurate RPM information.

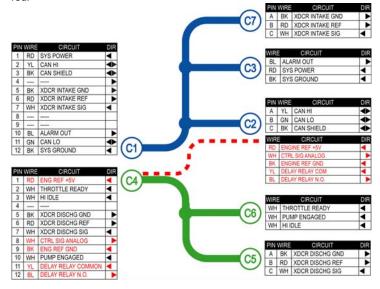


WIRING HARNESS

The main system harness (p/n 118453) is comprised of a pair of harnesses: the power/communication harness (depicted below in blue) and the signals harness (depicted below in green).



For the analog control option, add harness wires (p/n 118454) depicted in red.



VERIFY INTERLOCKS

The TPG+ requires OEM provided interlocks THROTTLE READY and PUMP ENGAGED for proper operation. The TPG+ utilizes backlit text to indicate interlock status. The interlock status indicators are located directly beneath the switch panel.

Activate the throttle ready interlock. (Apply system power to pin 2 of connector C4). Verify the **THROTTLE READY** text illuminates.

▶ The TPG+ will operate in RPM mode only and cannot be changed to pressure mode.

Activate the pump engaged interlock. (Apply system power to pin 10 of connector C4). Verify the **PUMP ENGAGED** text illuminates.

▶ The TPG+ will not operate in any mode without the THROTTLE READY interlock.

Activate the throttle ready and pump engaged interlocks. (Apply system power to pins 2 and 10 of connector C4).

Verify the **PUMP ENGAGED**, **OKAY TO PUMP**, and **THROTTLE READY** text illuminates.

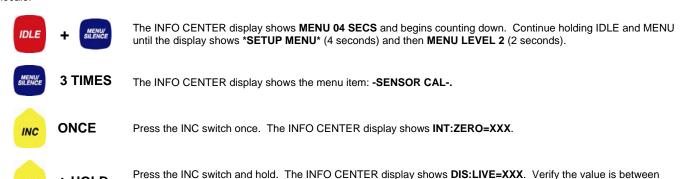
► The TPG+ will operate in either mode.





ZERO CALIBRATE THE DISCHARGE PRESSURE TRANSDUCER

The pressure indicated by the TPG+ may not show '0' when the pump discharge pressure is actually zero due to ambient pressure and altitude at your locale.



Press the PRESET switch once. The INFO CENTER display shows **NEW ZERO=XXX**. Verify the value is between ONCE 130 and 155.

130 and 155. Release the INC switch. The INFO CENTER display will show DIS:ZERO=XXX.

Press the IDLE switch once. The INFO CENTER display shows -EXITMENU- and then restarts normal **ONCE** IDLE operation.

VERIFY ENGINE CONTROL

+ HOLD

INC

Activate the throttle ready and pump engaged interlocks. (Apply system power to pins 2 and 10 of connector C4).

Verify the PUMP ENGAGED, OKAY TO PUMP, and THROTTLE READY text illuminates.



Press the MODE switch once. The INFO CENTER display shows ONCE MODE GOV=PRESSURE. The PSI indicator is illuminated YELLOW.



Press the MODE switch once. The INFO CENTER display shows **ONCE** MODE GOV=THROTTLE. The RPM indicator is illuminated BLUE.





Engine RPM will change when pressing either the INC or DEC switches.



Press the IDLE switch once. The INFO CENTER display shows IDLE and the engine RPM will reduce to the idle RPM. The INFO CENTER display then shows RPM XXXX.

For detailed operation and troubleshooting consult the full manual (p/n 118711) available from the Class 1 web site www.Class1.com

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