





Governors

MatrixGOVERNOR II

57

Sentry Governor Kits

58

Twister

59

Total Pressure Governor Kits

60

MATRIX

Pressure Governor

MatrixGOVERNOR II

Safely and confidently control your pump discharge pressure

Flexible, powerful and state-of-the-art. The MatrixGOVERNOR II monitors and controls your pump discharge pressure to maintain desired operating pressure range.

With intelligent controls, it detects conditions when water supply is reduced or cut off and reacts the way an operator would to keep engine speed from increasing out of control.

SAE J1939 compliant stand-alone fully functional pressure governor module maintains set pressure by reducing or increasing engine RPM.

The MatrixGOVERNOR II features self-diagnostics which sends out alerts when an error or fault condition occurs. It saves and sends pump session data, alarms, fault codes and errors over CAN for capture and analysis.

With flexible programming options – four levels of options providing customization of pump control settings, the MatrixGOVERNOR II can do what you want when you want. Featuring advanced settings for warnings and alarms, units of measure, control ramp rates, stability settings, max pressure settings and more.

Ultraview Touch Series



Intelli-Tank Level 40



Twister

Fully networked system allows controls from multiple locations with various user interfaces



Smart Touch Switch Panels

- SAE J1939 compliant stand-alone fully functional pressure governor module.
- Monitors discharge pressure and maintains set pressure by reducing or increasing engine RPM.
- Hard wired interlocks (throttle ready, pump engaged, ok to pump).
- Increase, decrease, idle, mode (pressure or RPM), preset, high idle inputs.
- Programmable default mode (pressure, RPM or none).
- Self-diagnostic options – sends out alarms and warnings when error or fault conditions occur.
- Made in North America.

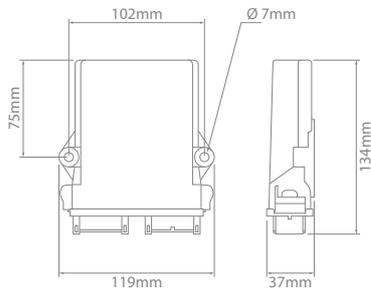


Voltage : 9–32V
Current Draw : 50mA @ 13.8V
Max Output Current : 250mA
CAN : SAE J1939
Construction : Polycarbonate
Ingress Protection : IP67
Operating Temperature : -40°C to 85°C

Made in North America

9V
32V

IP67



★ Featured



MatrixGOVERNOR II ★

Part No.	Description
610-00052	Pressure governor module



CONNKIT-IO



CONNKIT-IO-PB

MatrixGOVERNOR II – Connection Kits

Part No.	Description
CONNKIT-IO	Connection Kit
CONNKIT-IO-PB	Connection Kit – Purple Band Socket

Crimping tools can be found on page 96.



Governors

Sentry Governor Kits



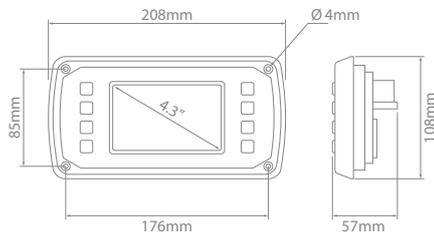
9V 32V IP67 Made in North America

- SAE J1939 CAN based pressure governing system.
- Controls engine speed directly over J1939 network or analogue control.
- Monitors RPM and other pertinent data directly from the engine ECU.
- 4.3" full colour LCD display with 8 tactile feedback buttons.
- Kits include Sentry display, Twister throttle, pressure transducers and associated wiring.
- Available in horizontal or vertical models.
- Advanced diagnostics – 2 levels, one for operator and one for maintenance technician.
- Environmentally sealed – IP67.
- Made in North America.

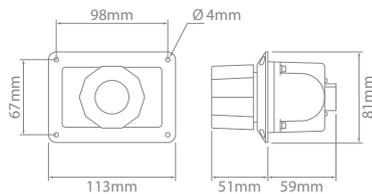
Voltage : 9–32V
 Current Draw : 240mA @ 13.8V
 Analogue Output : 0–5V
 CAN : SAE J1939
 Construction : Polycarbonate
 Ingress Protection : IP67
 Operating Temperature : -40°C to 85°C



Vertical orientation



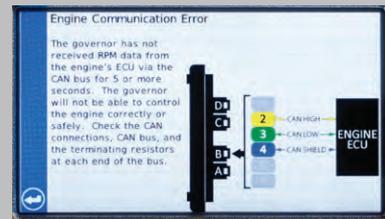
599-00010-001



Advanced Diagnostics

The Sentry Governor pressure system has advanced diagnostic features unparalleled in the fire service industry.

It provides two levels of diagnostics; one for the operator, and one for the maintenance technician.



Error screen describing issue with suggested solution and illustration.

Sentry Governor Kits

Kits Including Twister

Vertical Orientation
599-00010-001

- Kit Contents:
- 1 x Display (3045-101-00-CL1)
 - 1 x Bezel (122387)
 - 1 x Decal (122482)
 - 1 x Harness (513-00019)
 - 2 x Transducer 0-300 PSI (113557)
 - 1 x Twister (119970)

Horizontal Orientation
599-00010-002

- Kit Contents:
- 1 x Display (3045-102-00-CL1)
 - 1 x Bezel (122387)
 - 1 x Decal (122481)
 - 1 x Harness (513-00019)
 - 2 x Transducer 0-300 PSI (113557)
 - 1 x Twister (119970)

Kits Not Including Twister

Vertical Orientation
599-00010-003

- Kit Contents:
- 1 x Display (3045-101-00-CL1)
 - 1 x Bezel (122387)
 - 1 x Decal (122482)
 - 1 x Harness (513-00019)
 - 2 x Transducer 0-300 PSI (113557)

Horizontal Orientation
599-00010-004

- Kit Contents:
- 1 x Display (3045-102-00-CL1)
 - 1 x Bezel (122387)
 - 1 x Decal (122481)
 - 1 x Harness (513-00019)
 - 2 x Transducer 0-300 PSI (113557)

Optional 0-600 PSI transducer available, see page 75.

- Class 1's Twister is an electronic vernier style throttle for controlling the speed of:
 - SAE J1939 CAN compliant engines
 - Analogue (DC voltage) controlled engines
- Power-on state is always idle.
- Interlocked for safety.
- Clockwise or counter-clockwise operation.
- Ergonomic control with tactile feedback.
- Large and easily accessible idle button.
- Bright LED indicators. "Throttle Ready" for interlock, and "Active" for active engine control.
- Environmentally sealed – IP67.
- Made in North America.

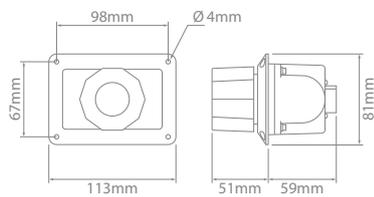


Voltage : 9-32V
Current Draw : 240mA @ 13.8V
Analogue Output : 0-5V
CAN : SAE J1939
Construction : Die-cast Alloy
Ingress Protection : IP67
Operating Temperature : -40°C to 85°C

Made in North America

9V
32V

IP67



Twister

Part No.	Output
119970	CAN
119971	Analogue



Twister – Connection Kit

Part No.	Suits
CONNKIT-TWISTER	Both CAN & Analogue Twisters

Crimping tools can be found on page 96.





9V 32V IP67 Made in North America

- Controls engine speed directly over J1939 network or analogue control.
- Tactile feedback buttons.
- Water S.I.P. – Maximises pressure & flow with minimum engine RPM.
- Large, easy to read alpha-numeric displays.
- Easy setup & configuration.
- Dedicated Pump Intake and Pump Discharge displays. TPG+ only.
- Integrated warning lights – battery voltage, water temperature & oil pressure.
- Audible alarm output.
- Programmable presets.
- Environmentally sealed – IP67.
- Multi-voltage.
- Made in North America.

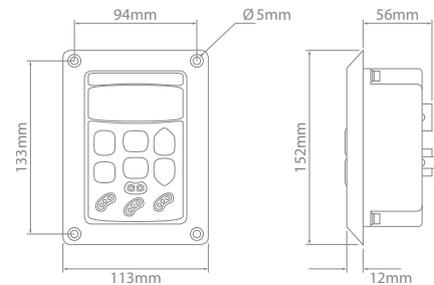
Voltage : 9–32V
Current Draw : TPG 350mA @ 13.8V
 TPG+ 400mA @ 13.8V
Analogue Output : 0–5V
CAN : SAE J1939
Construction : Die-cast Alloy
Ingress Protection : IP67
Operating Temperature : -40°C to 85°C



116600



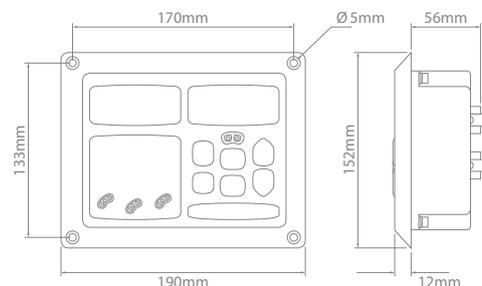
TPG



Dedicated pump intake & discharge displays



TPG+



Total Pressure Governor Kits

Part No.	Kit	Description	Kit Contents	
116600	TPG	Pump governor	1 x TPG 1 x Transducer (113557)	1 x Harness (116053) 1 x Manual
119650	TPG+	Pump governor integrating dedicated pump intake & discharge displays	1 x TPG+ 2 x Transducer (113557)	1 x Harness (118453) 1 x Manual



113557, 117179



116053



118453

Total Pressure Governors – Accessories

Part No.	Description
113557	Pressure sensor – 0 to 300 PSI
117179	Pressure sensor – 0 to 600 PSI
116053	Harness – 1.2m. Suits TPG
118453	Harness – 1.2m. Suits TPG+

