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# Governmors



# Governors



SAM BOOST 94



MatrixGOVERNOR II 93



Sentry Governor Kits 94



Twister 95

# SAM BOOST

SAM BOOST manages your water flow, so you can focus on the fireground, not the side of your truck.



## BOOST Governor

With just a couple of button presses from the Smart Nozzle or the BOOST Governor, you can open lines, set pressure, and monitor water supply, all without tying up comms or an extra operator.

SAM BOOST is a retrofit-ready system that automates water delivery and simplifies pump control.

Designed to work with your existing truck, adding smart automation for up to two preconnected discharges using a simplified interface and wireless Smart Nozzles.

- Automatically open tank-to-pump when the pump is engaged.
- Adjust pressures from the BOOST Governor or let the system manage them automatically.
- Support two preconnected hose lines.
- Manual or automatic pressure control.

## Smart Nozzles

The SAM BOOST system integrates Smart Nozzles—wireless, pressure-sensing nozzles that let firefighters charge their own line, monitor water levels, and maintain optimal flow directly from the nozzle.

- Charge the line on-demand.
- Real-time water status at the nozzle.
- Maintains correct pressure automatically.
- Wireless communication with the truck.



# Integrated Total Water Control System



Explore and watch videos



[www.SamFlows.com](http://www.SamFlows.com)

For enquiries contact  
Class 1 Australia on 1800 724 690 or  
visit [www.Class1Australia.com.au](http://www.Class1Australia.com.au)  
for more information.

**NEW**



6V 36V IP67 Made in North America

- SAM BOOST automates key pump operations to simplify hose deployment, maintain pressure, and boost crew efficiency during initial attack.
- Automatically opens the tank-to-pump when the pump is engaged.
- Maintains correct discharge pressure by compensating for hose loss and elevation.
- Supports up to two Smart Nozzles.
- Allows for manual or automatic discharge pressure adjustments.
- Continues pressure regulation even if wireless connection is lost.
- Charge the hose line directly from the Smart Nozzle for faster deployment.
- LED indicators on the nozzle display real-time tank water levels.
- Wireless communication with the truck.

### BOOST Governor Specifications

Voltage :	6–36V
Video Input :	NTSC/PAL
Output :	Digital 500mA
CAN :	SAE J1939, NMEA 2000
Construction :	Polycarbonate
Ingress Protection :	IP67
Vibration :	7.86G rms 5–2000 Hz, 3 axis
Shock :	+/- 50G, 3 axis
Operating Temperature :	-40°C to 85°C

## Smart Nozzles

The SAM BOOST system integrates Smart Nozzles – wireless, pressure-sensing nozzles that let firefighters charge their own line, monitor water levels, and maintain optimal flow directly from the nozzle.

- Charge the hose line directly from the nozzle for faster deployment.
- LED indicators on the nozzle display real-time vital info.
- Constant wireless communication with the truck.

The Smart Nozzle has a pressure sensor that communicates with the SAM BOOST governor and sets the discharge valve to compensate for friction loss. The operating pressures are 50, 75, or 100 PSI.

The Smart Nozzles are for use on pre-connected hand lines up to 90 metres long, up to five floors above the pumper and two floors below grade.

Up to 2 x Smart Nozzles per SAM BOOST system.

At a glance quickly see:

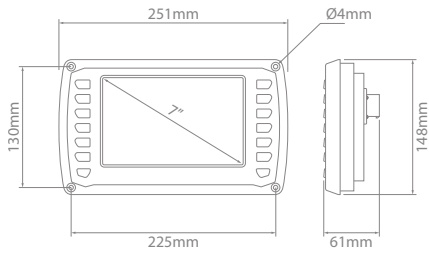
- Real-time tank water levels – green, yellow, and red LED indicators.
- Water supply connection status.



Customer specified nozzle

Function buttons on each side of nozzle, used to charge the line

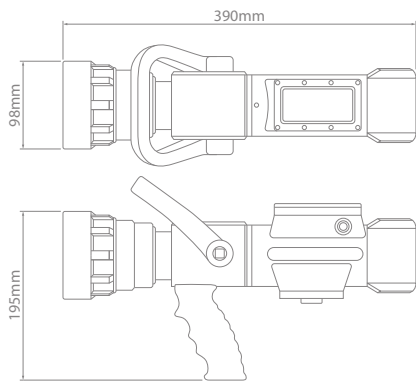
Powered by 2 lithium-ion rechargeable batteries



SAM BOOST utilises the Ultraview UV700, page 32 for more detail



BOOST Governor



Smart Nozzle

## SAM BOOST Kits NEW

Part No.	Smart Nozzle in Kit	Description
<b>SAMBOOST-SINGLE</b>	1	Retrofit system including Governor and Smart Nozzle(s)
<b>SAMBOOST-DUAL</b>	2	



# 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 standalone 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 conditions 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



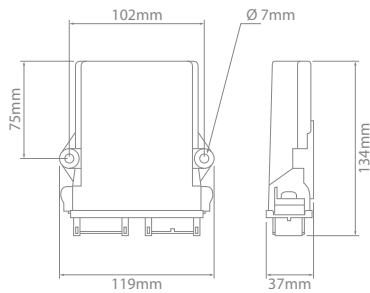
### Smart Touch Switch Panels

- SAE J1939 compliant standalone 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.



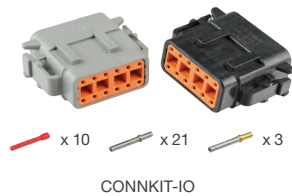
Voltage : 9–32V  
 Current Draw : 50mA @ 13.8V  
 Max Output Current : 250mA  
 CAN : SAE J1939  
 Construction : Polycarbonate  
 Ingress Protection : IP67  
 Operating Temperature : -40°C to 85°C

Made in North America 9V 32V IP67

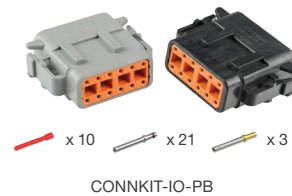


## MatrixGOVERNOR II

Part No.	Description
610-00052	Pressure governor module



CONNKIT-IO



CONNKIT-IO-PB

## MatrixGOVERNOR II – Connector Kits

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

Crimping tools can be found on page 117.



# Governors

## Sentry Governor Kits



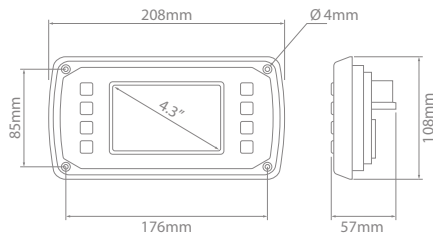
9V 32V IP67 Made in North America

- 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 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.

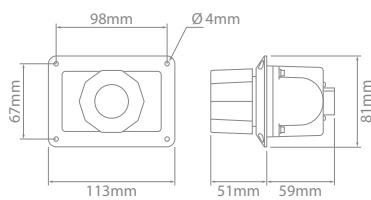
Voltage : 9–32V  
 Current Draw : 240mA @ 13.8V  
 Analogue Output : 0–5V  
 CAN : SAE J1939  
 Construction : Polycarbonate  
 Ingress Protection : IP67  
 Operating Temperature : -40°C to 85°C



Vertical orientation



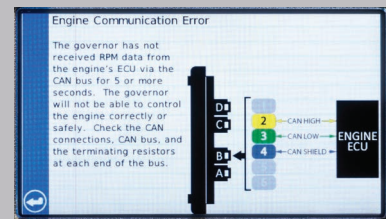
599-00010-001



## 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

Vertical Orientation  
**599-00010-001**



Kit Contents:  
 1 x Display (3045-101-00-CL1) 1 x Harness (513-00019)  
 1 x Bezel (122387) 2 x Transducer 0-300 PSI (113557)  
 1 x Decal (122482-001) 1 x Twister (119970)

Horizontal Orientation  
**599-00010-002**



Kit Contents:  
 1 x Display (3045-102-00-CL1) 1 x Harness (513-00019)  
 1 x Bezel (122387) 2 x Transducer 0-300 PSI (113557)  
 1 x Decal (122481-001) 1 x Twister (119970)

Optional 0-600 PSI transducer available, see page 63.

- 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 counterclockwise 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.

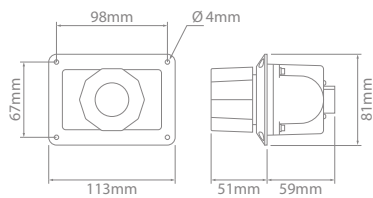


**Voltage :** 9–32V  
**Current Draw :** 240mA @ 13.8V  
**Analogue Output :** 0–5V  
**CAN :** SAE J1939  
**Construction :** Die-cast Alloy  
**Ingress Protection :** IP67  
**Operating Temperature :** -40°C to 85°C

Made in North America

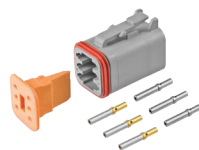
9V  
32V

IP67



## Twister

Part No.	Output
119970	CAN
119971	Analogue



## Twister – Connector Kit

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

Crimping tools can be found on page 117.

