Control & Safety Solutions



INSTRUMENTS CONTROLS DISPLAYS ACCESSORIES



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📥 PSI 120 🦉	

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SaferSearch

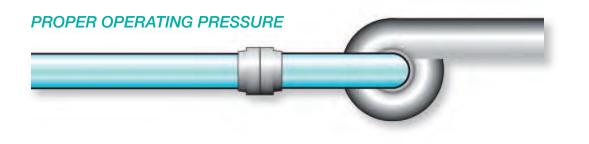
SAFETY

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Sensor Specifications



FRC GOVERNORS PROVIDE SAFER PUMP OPERATION



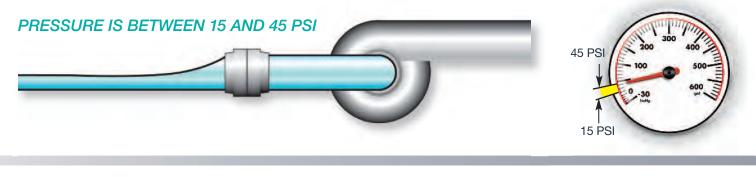
PRESSURE IS ABOVE 45 PSI WITH INCONSISTENT FLOW OR AIR IN THE LINE

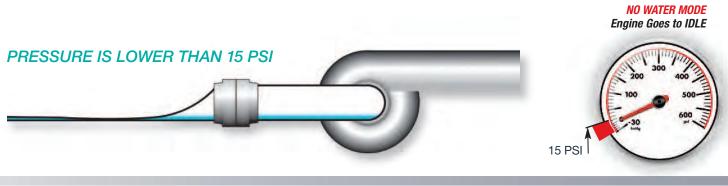
RPM LIMIT MODE Pressure above 45 PSI





LOW WATER CYCLE Engine Limited to 1100 RPM





FRC



- Constantly monitors discharge pressure and compares it to engine RPM
- Limits RPM increases when conditions arise that fall outside of normal operating parameters
- Message display always alerts operator to what the governor is doing and what type of problem it is encountering

Running Away From Water

If pressure drops and an increase in RPM does not bring the pressure back up, the governor recognizes this as a running away from water condition. When this condition occurs the governor switches to the RPM LIMIT MODE, LOW WATER CYCLE or NO SUPPLY WATER, alerts the operator and controls the engine RPM accordingly.





RPM LIMIT MODE

If the discharge pressure stays above 45 PSI, the governor behaves like a manual throttle and the operator can raise or lower the engine RPM. If the RPM is manually lowered to a point where the pump is not running away from water and pressure is stable, the RPM limit mode is cancelled. When the pressure comes back to the selected pressure setting, the RPM limit mode is cancelled and the governor switches to normal operation.

Message Display Flashes OPERATOR/RPM LIMIT



LOW WATER CYCLE

If the discharge pressure is between 15 and 45 PSI, the engine is set at 1100 RPM. If the pressure does not rise above 45 PSI in 7 seconds, the governor sets the engine RPM at idle. The governor repeats the low water cycle as long as the discharge pressure is between 15 and 45 PSI. When the pressure rises above 45 PSI the governor resumes normal operation.



Message Display Flashes LO WATER



NO SUPPLY WATER

If the discharge pressure is below 15 PSI, the engine RPM is set at idle and the message display flashes NO WATER. If, within 3 minutes, the discharge pressure rises above 15 PSI the governor enters the low water cycle. If the discharge pressure does not rise above 15 PSI within 3 minutes, the governor switches to idle mode and cancels the pressure setting.

Message Display Flashes NO WATER



PRESSUREGOVERNORS









EXCLUSIVELYFRC ADJUSTMENT FEATURES

Quick Response Control Knob

allows faster and more reliable pressure and RPM adjustments

Available on PumpBoss and INControl 400





Available on Total Control, INControl 300

and ProT

ADDITIONAL FEATURES

Separate Pressure & RPM Buttons with LED indicators

for the ease of selecting either mode of operation

Available on PumpBoss, ProT, and INControl



Throttle-Ready LED is on when the required interlock conditions are met and the governor begins pump operations



Digital Master Pressure Display

for pump discharge and intake

Available on Total Control, INControl and ProT







INCONTROL 400 Features Knob Control







UNIVERSAL GOVERNOR FEATURES

ALL OF OUR PRESSURE GOVERNORS HAVE THE MOST INNOVATIVE FEATURES IN THE INDUSTRY

Separate Menu & Silence Buttons



Used when accessing program features

SILENCE BUTTON

MENU BUTTON

suppresses audio alarms.

is used to access detailed

information and program features

Bi-colored LED bar graphs

provides operator with clear visual engine status GREEN - normal RED - fault / warning



2 Line Digital Message Display

clearly shows the pressure and RPM settings during normal operations, as well as warning alarms and stored data program features

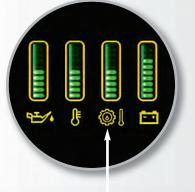


Check Engine & Stop Engine LEDs repeat engine warnings from the cab



Day/Night Sensor adjusts the brightness of

the LED displays to ensure clear day/night viewing



An additional bi-color LED bar graph specific for transmission temperature





SUPERIOR FEATURES FOR SAFER OPERATION

Always Starts from Idle

Ensures a safer operation when the pressure governor is activated. No unsafe pressure surge

Stays in Selected Mode

Will not drop out of operational mode when the engine RPM is brought back to IDLE by pump operator or when the pump has cavitated

Governor Only Operates when Throttle Ready LED is on

Interlock protection to ensure safe operating conditions are met

Field Programmable Preset for Pressure and RPM

Use the PRESET button to quickly go to the desired pump pressure or engine RPM

Visual Indication and Audible Alarm if Engine Limits are Exceeded

Alerts the operator to unsafe pump operation

Self Diagnostic Capabilities

Provides alarms and warnings when error or fault conditions exist

Fault Conditions are Recorded

Faults codes are stored with date and time stamp, easy to retrieve for diagnostics and maintenance

USB Port

Allows software updates or revisions to be easily uploaded



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FRC

PROGRAMMING OPTIONS

AT MULTIPLE LEVELS

FRC Governors Provide Flexibility with Over 50 Programmable Options

There are four levels of programming that allow all FRC governors to meet your exact requirements and needs. Programming is simple to change with clear, easy to follow instructions. Passwords are required to access higher level operational codes.

Factory Defaults

Meets all standard NFPA recommendations

Manufacturer/Body Builder Programming

Helps match the governor to engine, transmission, pump, and specific vehicle requirements

Dealer/Service Center Codes

Allows for adjusting vehicle related parameters, calibrations, warning and alarm values

Field Settings

Access to date and time, presets, calibration points, and operator functions as needed

CUSTOMIZED PARAMETERS

FOR THE PERFECT FIT

Warnings and Alarms

Defaults to NFPA and engine manufacture recommendations, adjustable for all high and low settings

Unit of Measure

Choose from Imperial or multiple variations of metric for control and display

Engine Type

Select engine model and control characteristics

Engine Control Ramp Rate and Stability Setting

1.800.645.0074

When necessary these parameters are matched with the pump curve for specific configurations

Maximum Pressure Setting High pressure pumps and sensors require higher settings

Knob Rotation Available in counter-clockwise rotations

Remote Activation

Typically used with ARFF apparatus



ORDERINGINFORMATION

PUMPBOSS receives engine information via the J1939 or ISO CAN bus. STANDARD KIT includes control module, pressure sensor(s), and cables.

Kit Number	'S	
One 300 PSI	Two 600 PSI	
Discharge	Discharge & Intake	
Sensor	Sensors	Description
PBA200	PBA400	Generic
PBA201	PBA401	Cummins IS
PBA202	PBA402	Detroit Diesel
PBA204	PBA404	Navistar
PBA205	PBA405	Caterpillar
PBA206	PBA406	Ford *
PBA207	PBA407	Mack
PBA208	PBA408	Scania
PBA210	PBA410	Mercedes
PBA216	PBA416	John Deere
PBA224	PBA424	MAN
	Densing 1400	

* Ford engine 2011 or newer. Requires J1939 Translator Module

Dimensions : 6.75" (H) x 4.625" (W)

Options : Audible Alarm Buzzer • kPa / Bar / °C







INCONTROL 400 Features Knob Control



INCONTROL 300 Features Push Button Control

FRC

ORDERINGINFORMATION

INCONTROL receives engine information via the J1939 or ISO CAN bus. STANDARD KIT includes control module, pressure sensors, audible alarm buzzer, and cables.

		t Numbers	Kit N
	Knob	sh	Push
escription	Control	tton	Buttor
ieneric	TGA400	A300	TGA30
ummins l	TGA401	A301	TGA30
etroit Die	TGA402	A302	TGA30
lavistar	TGA404	A304	TGA30
aterpillar	TGA405	A305	TGA30
ord *	TGA406	A306	TGA30
lack	TGA407	A307	TGA30
cania	TGA408	A308	TGA30
lercedes	TGA410	A310	TGA31
ohn Deere	TGA416	A316	TGA31
IAN	TGA424	A324	TGA32
lercede ohn De	TGA410 TGA416	A310 A316	TGA31

* Ford engine 2011 or newer. Requires J1939 Translator Module

Dimensions : 5.5" (H) x 10.5" (W) Options : kPa / Bar / °C

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ORDERINGINFORMATION

TOTALCONTROL receives engine information via the J1939 or ISO CAN bus.

STANDARD KIT includes control module, pressure sensors, audible alarm buzzer, and cables.

Kit Numbers	Description
TCA100	Generic
TCA101	Cummins IS
TCA102	Detroit Diesel
TCA104	Navistar
TCA105	Caterpillar
TCA106	Ford *
TCA107	Mack
TCA108	Scania
TCA110	Mercedes
TCA116	John Deere
TCA124	MAN

* Ford engine 2011 or newer. Requires J1939 Translator Module

Dimensions : 6" (H) x 7.5" (W) Options : kPa / Bar / °C

ORDERINGINFORMATION

PRO-T receives engine information via the J1939 or ISO CAN bus. STANDARD KIT includes control module, pressure sensors, audible alarm buzzer, and cables.

Kit Numbers	
	Description
PRA300	Generic
PRA301	Cummins IS
PRA302	Detroit Diesel
PRA304	Navistar
PRA305	Caterpillar
PRA306	Ford *
PRA307	Mack
PRA308	Scania
PRA310	Mercedes
PRA316	John Deere
PRA324	MAN

* Ford engine 2011 or newer. Requires J1939 Translator Module

Dimensions : 5.5" (H) x 10.5" (W) Options : kPa / Bar / °C





Traditional PRO Governor Latest Technology



ENGINE THROTTLES



infinityPRO

FEATURES

- Always Starts From Idle Regardless of Knob Position Which Provides Safer Operation on Start-Up
- Uses Solid State Optical Technology so There are no Mechanical Components to Wear Out
- Knob Rotation Speed Determines Engine Response for Faster and Finer RPM Control
- Red IDLE Button Returns Engine to Idle RPM Quickly
- Operates Only When Safety Interlock is Energized
- FRC Datalink Allows for Multiple Remote Throttles for Added Versatility and Control
- Microprocessor Controlled and Compatible with Most Engines

EXCLUSIVELYFRC

Large Knurled Control Knob is easy to operate even with a Gloved Hand





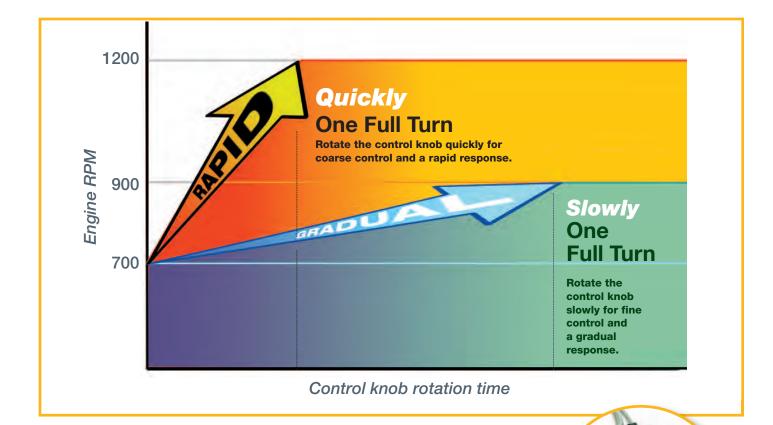
Direct replacement for conventional vernier type throttles used on older Cummins, Detroit Diesel, and Navistar engines.



EXCLUSIVELYFRC

The Next Generation of Remote Electronic Engine Throttles!

The INFINITY series of remote engine throttles are designed with the most advanced technology available. These hand throttles eliminate the potentiometer and electro-mechanical switches used in conventional throttles. INFINITY remote engine throttles use optical technology to determine the speed and direction of control knob movement and to detect when the idle button is pressed.



FIELD PROGRAMMING UNIT

The INFINITY-PRO can be programmed for specific engines at the factory or at the time of installation using the field programming unit.

ORDERINGINFORMATION

Infinity-Pro

STANDARD KIT includes hand throttle, identification plate, and cable

I				
	Kit Numbers	Description	Kit Numbers	Description
	ETA400	Generic	ETA406	Ford
	ETA401	Cummins IS	ETA407	Mack
	ETA402	Detroit Diesel	ETA408	Scania
	ETA404	Navistar	ETA410	Mercedes
	ETA405	Caterpillar	ETA500	Field Programming Unit

Infinity-S replacement for conventional vernier throttles.

STANDARD KIT includes replacement hand throttle,

identification plate, and cable

Kit Numbers	Description
ETA200	Generic
ETA201	Cummins
ETA202	Detroit Diesel
ETA204	Navistar

Dimensions : 3.25" (H) x 3" (W)

INFINITY Throttles are not engine governors and will not automatically compensate for engine load changes.







THROTTLEXCEL

FEATURES

- J1939 or ISO CAN Bus for Engine Information
- Manual or Automatic Control of Engine RPM
- Powers Up at Engine Idle RPM
- Interlock Signal Recognition with Throttle Ready LED
- Return to Engine Idle With the Push of a Button
- Diagnostic Capabilities
- High Idle
- Audible Alarm Buzzer (Optional)
- kPa / Bar (Optional)

EXCLUSIVELYFRC

- Quick response control knob allows faster and more reliable RPM adjustments
- Two line digital message display to clearly show the RPM settings during normal operations, as well as warning alarms and stored data program features
- Bi-color LED bar graphs that provide operators with clear visual engine status
- An additional 4th bi-color LED bar graph specific for transmission temperature
- A built-in day/night sensor adjusts the brightness of the LED display to ensure clear viewing
- Separate buttons for MENU and SILENCE. SILENCE button to deactivate the audible warning alarm
- MENU button to access stored data and program features

ORDERINGINFORMATION

THROTTLEXCEL receives engine information via the J1939 or ISO CAN bus. STANDARD KIT includes control module, and cables.

Kit Numbers	Description	Kit Numbers	Description
ELA200	Generic	ELA207	Mack
ELA201	Cummins IS	ELA208	Scania
ELA202	Detroit Diesel	ELA210	Mercedes
ELA204	Navistar	ELA216	John Deere
ELA205	Caterpillar	ELA224	MAN
ELA206	Ford *		

Dimensions : 6.75" (H) x 4.625" (W) Options : Audible Alarm Buzzer kPa / Bar / °C

* Ford engine 2011 or newer. Requires J1939 Translator Module





FEATURES

- J1939 or ISO CAN Bus for Engine Information
- Digital Engine RPM, Engine Oil Pressure, Engine Coolant Temperature and Battery Voltage Displays
- Easy to Install, No Panel Cut-Out Needed
- Built-in Diagnostics
- Programmable Audible and Visual Warnings
- Low and Over Voltage Warnings
- Programmable Unit-of-Measure choose PSI / kPa / Bar or °F / °C



EXCLUSIVELYFRC

- A built-in day/night sensor adjusts the brightness of the LED display to ensure clear viewing
- Transmission temperature displayed
- SILENCE button to deactivate the audible warning alarm
- MENU button to access stored data and program features
- Automatically adjusts to 12 or 24 volt system

The Engine Monitoring Display is an all-in-one instrument panel with integrated monitoring and display capabilities that saves valuable pump panel space. It combines four different instruments in one waterproof unit. It provides both audible and visual warning alarms if specified parameters go outside of set limits.

The Engine Monitoring Display as a 4-digit LED display for engine RPM and 3-digit LED displays for engine oil pressure, engine coolant temperature and battery voltage. During normal operation warning messages are displayed as they occur.

ORDERINGINFORMATION

TACH P3 receives engine information via the J1939 or ISO CAN bus. STANDARD KIT includes display module, audible alarm buzzer, and cables

Kit Number	Description
TPA600	TACH P3 Engine Monitoring Display

* Requires J1939 Translator Module for FORD engines

Dimensions : 4.2" (H) x 4.2" (W)



TANKVISI@N PRO



PROGRAM • VIEW • KNOW

- The First Programmable Multi-color Tank Level Display
- Highly Visible Ultra-Bright LED's Provide the Most Accurate Display Available
- Wide-Viewing 180° Lens is Easy to See Under All Conditions
- Programmable Brightness Control
- Visual/Audio Warnings for Low Water/Foam Volume
- Self Calibrates to Any Size/Shape Tank Making it Easy to Install and Operate
- Pressure Sensor Monitors Water/Foam Volume Which Means no Tank Probes to Install or Maintain
- Unlimited Remote Displays Including Cab Miniature
- Water/Foam Volume Visible from Multiple Locations



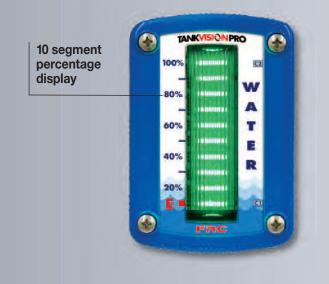
RC

PROGRAMMABLE FOR MULTIPLE COLORED LIGHT PATTERNS









10 SEGMENT LED PERCENTAGE DISPLAY

available for both the WLA300 series and WLA400 series

EXCLUSIVELYFRC

WLA400 Series with enhanced functions:

- Automatic Electric Valve Control
- Silence Button Input for Audio Warning
- Visual & Audible Warning Output

ORDERINGINFORMATION

STANDARD KIT includes;

Primary - display module, pressure sensor, and cables Remote(s) - display module and cables

300 Series	400 Series	Description	
WLA300-A0	WLA400-A0	Water, Primary, Fractional	
WLA300-A1	WLA400-A1	Water, Primary, Percentage	
WLA300-B0	WLA400-B0	Water, Remote, Fractional	
WLA300-B1	WLA400-B1	Water, Remote, Percentage	
WLA360-A0	WLA460-A0	Foam Class A, Primary, Fractional	
WLA360-A1	WLA460-A1	Foam Class A, Primary, Percentage	
WLA360-B0	WLA460-B0	Foam Class A, Remote, Fractional	
WLA360-B1	WLA460-B1	Foam Class A, Remote, Percentage	
WLA370-A0	WLA470-A0	Foam Class B, Primary, Fractional	
WLA370-A1	WLA470-A1	Foam Class B, Primary, Percentage	
WLA370-B0	WLA470-B0	Foam Class B, Remote, Fractional	
WLA370-B1	WLA470-B1	Foam Class B, Remote, Percentage	

Additional Remotes

WLA205-A Water, Cab Mini WLA265-A Foam Class A, Cab Mini WLA275-A Foam Class B, Cab Mini WLA290-A Driver, Remote Lights

Dimensions:

Standard 4.375[°] (H) x 3[°] (W) Cab Mini 2.75[°] (H) x 1.5[°] (W)

Options :

90° Foam Vent Thin Wall Adapter Calibration Magnet Audible Alarm Buzzer



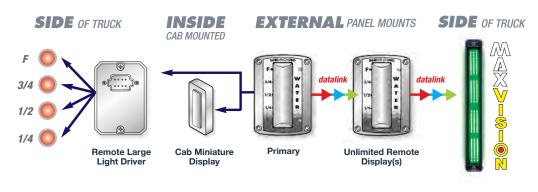
ALWAYS KNOW YOUR WATER/FOAM VOLUME ACCURATELY & INSTANTLY

EXCLUSIVELYFRC

DYNAMIC 180° WIDE VIEW LENS ACTUAL WATER/FOAM VOLUMES MISLEADING! CORRECT! TANKVISION® OTHERS DISPLAYS DISPLAY 25% 50% REMAINING REMAINING **HIGHLY VISIBLE ULTRA-BRIGHT LEDS EXCLUSIVELYFRC THIN WALL ADAPTER** For use on tanks **SUPPLIED WITH UNIQUE** where the walls are thin ($\leq 3/8''$). **TOP OR SIDE MOUNT** Shown with FOAM TANK VENTS pressure Top Mount For use on sealed foam tanks. The vent sensor is designed to relieve tank pressure mounted. at ± 0.01 PSI. (With conventional vents relief pressure is ± 1.0 PSI.) Vents are self-draining. This stops splashing concentrate from entering the valve 90° Side Mount cavity and clogging the vent.

MULTIPLE DISPLAY OPTIONS MAXVISION, CAB MINIATURES & REMOTE LIGHT DRIVER

The remote light driver option will power four 60 watt lights or LED light stick to show full, 3/4, 1/2, and 1/4 tank. A miniature display with 5 LEDs is available for mounting inside the cab and multiple TankvisionPro[®] and MaxVision remote displays can be connected together. All calibration and display information is downloaded from the primary display using the built-in FRC Datalink.

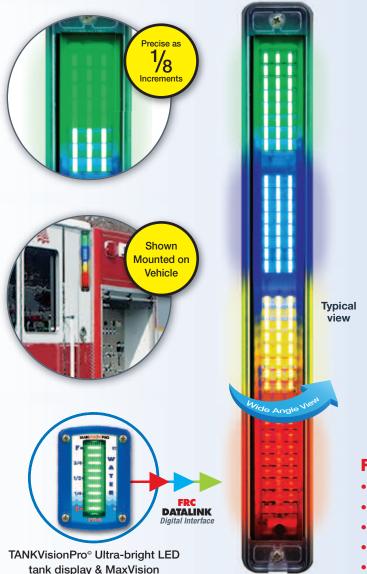








UP CLOSE OR FAR AWAY, THE PERFECT COMBINATION



EXCLUSIVELYFRC MULTIPLE PROGRAMMABLE VIEW OPTIONS



NEW MAX VIEW COMBINATIONS

FEATURES

- Intense LEDs provide long distance, wide-angle view
- Brightness auto-adjust for clear day or night viewing •
- **Display changes by 1/8 tank increments** •
- Works with any FRC TankVision display
- Built-in LED driver provides quicker & easier installation

ORDERINGINFORMATION

Kit Numbers **WLA280-A**

Description

MaxVision Programmable LED Tank Display

Dimensions: 14.375" (H) x 1.875" (W) x 0.875" (D)

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FROG-D SINGLE PHASE GENERATOR DISPLAY

FEATURES

- Displays Frequency, Voltage, and Current
- Ideal for Hydraulic, Diesel Powered, and PTO Generators
- Rated for 50/60 Hz Generators from 6 to 45 kW
- Highly Visible Ultra-Bright LEDs
- MODE Button Displays Total Generator Hrs. and Hydraulic Oil Temp.
- Built-in Warning for Current Overloads, Voltage Fluctuations, and High Hydraulic Oil Temperature
- Optional Hydraulic Oil Temperature Sensor and Audible Alarm Buzzer

FROG-D THREE PHASE GENERATOR DISPLAY

FEATURES

- Displays Frequency, Line Voltage (Phase to Neutral or Phase to Phase), and Current on Each Line
- Monitor Each Line Individually or Scan All Lines Continuously
- Rated for 50/60 Hz Generators from 10 to 135 kW
- Generator Hourmeter
- Built-in Warning for Current Overloads, Voltage Fluctuations, and High Hydraulic Oil Temperature
- Optional Hydraulic Oil Temperature Sensor and Audible Alarm





The three phase signal interface module is mounted close to the current sensors and voltage transformers so that cable runs are short. Current and voltage information is passed to the display module over a two-wire datalink.

ORDERINGINFORMATION

STANDARD KIT includes;

Single Phase - display module, 2 current sensors, AC voltage transformer, and cables. Three Phase - display module, signal interface module, 3 current sensors, 3 AC voltage transformers, & cables.

rog-D. Single Phase
reg b, enigie i nace
rog-D, Three Phase, Delta Windings
rog-D, Three Phase, Star Windings

Single Phase rated 6 to 45 kW
 Three Phase rated 10 to 135 kW

Dimensions : 4.25" (H) x 4.25" (W) Interface Module - 3.8" x 5.9" x 1.9"

Options : Audible Alarm Buzzer Hydraulic Oil Temperature Sensor

1.800.645.0074



www.fireresearch.com

INSIGHT portable **FLOWTESTER**



FEATURES

- Programmable for Multiple **Diameter Flow Tubes**
- Use Same Display for **Multiple Tubes**
- Calibrate Each Tube Separately to **Reduce the Chance of Errors**
- Displays Flow Directly in GPM/LPM
- Ultra Bright LED Display is Easy to See Under All Conditions
- Flow Warning and Diagnostic **Functions**
- Superior Performance and Accuracy
- Hydrant Water Supply Testing

Totalizing function on FTA400 models only.

ALL-IN-ONE SELF CONTAINED TESTER

- Test pump effectiveness
- Calibrate and verify fire suppression equipment
- Test hydrant flow
- Teach hydraulics in real situations
- Shock resistant case with internal cord storage and rechargeable battery (optional padded carry-bag available for flow tube)

Flow tube

shown with optional pitot pressure pick-up for reading higher flow rates.



ORDERINGINFORMATION

STANDARD KIT includes test set with built-in battery and 120 VAC charger, Flow Tube, Flow Sensor, and Cables

Options: Tube Carry Bag • DC Power Cable **Pitot Tube • International AC Power Cord**

Counlings available vary with flow tube diameters

240 VAC Charger

Kit Numbers Description GPM FTA400-XXX FTA410-XXX LPM **GPM/PSI - This Kit Includes a Pressure Sensor** FTA500-XXX FTA510-XXX LPM/kPa - This Kit Includes a Pressure Sensor FTA520-XXX LPM/Bar - This Kit Inclues a Pressure Sensor XXX = Tube Diameter, Standard Flow Tube Diameters (in inches):

01.5, 02.0, 02.5, 03.0, 04.0

Tube Diameter	Standard Coupling	Flow Rate (in GPM)	
(in inches)	(in inches)	w/flow sensor	w/pitot & open butt
1.5	2.5	13-320	13-500
2.0	2.5	21-520	21-800
2.5	2.5	30-850	13-1200
3.0	NPT	40-1380	40-2000
4.0	NPT	80-2300	80-3400



DATA

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口

DATATRON

Durable waterproof case keeps electronics protected

- Monitors up to 4 channels individually for flow & pressure
- Memory records & stores data with time & date stamp
- Operates in either manual or automatic mode
- Built-in USB & PC interface for data retrieval in a spreadsheet format
- Records up to 99 events in Automatic mode

ORDERINGINFORMATION

STANDARD KIT includes test set with built-in battery and charger, flow tube, flow & pressure sensors & cables.

Kit NumbersDescriptionFTC200 -XXXGPM / PSIFTC210 -XXXLPM / kPaFTC220 -XXXLPM / Bar	For a kit with a single flow tube XXX = Flow Tube diameter (in inches) For a kit with a multiple flow tubes XXX = Number of flow tubes (002 to 004)
--	--

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New Smart flow sensor stores pipe size & calibration data allowing flow tubes to be used with any channel or another DataTron without recalibration



MONITOR / RECORD / STORE / RETRIEVE

EXCLUSIVELYFRC

AUTOMATIC MODE Only Datatron offers automated flow and pressure testing. Simply program TIME and COUNTS into memory.



(Example: If the number of COUNTS is set at 10 and the TIME interval is set for 5, this equals a 45 minute recording session.)



LED record indicator

LED charge indicator



FLOW

200

100

PG

FLOW

0

400

500

TOTAL

INSIGHT

TOTAL ×100

PRESSURE

PRESSURE

FLOW

NFPA Colors

Available on all

Meters

INSIGHT

KNOW THE FLOW KNOW THE PRESSURE HELPS KEEP YOUR NOZZLEMEN SAFER



FEATURES

- Easy Calibration from Front of Meter Simplifies Installation
- Brightest Readout Possible is Easy to See Under All Conditions
- NFPA Colored Bezels Help Eliminate Mistakes
- FRC Datalink Allows for Remote Displays
- Photo Sensor Detects Ambient Light so the Unit Automatically Adjusts the LED Intensity for Day or Night Operation

INSIGHT



EXCLUSIVELYFRC







PRESSURE GETS WATER TO THE FIRE, WATER FLOW PUTS FIRES OUT.

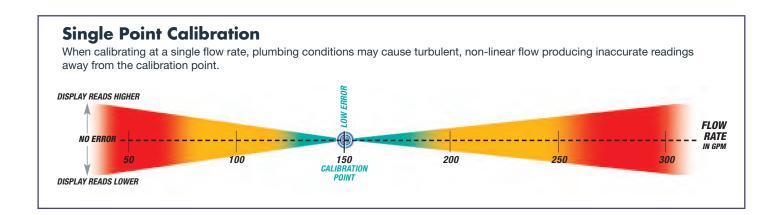
Getting the right flow on the fire is critical. Forget using rule-of-thumb based on variables such as pressure readings, hose, size, length and friction loss. Flowmeters give an exact and immediate measure of the water being used.

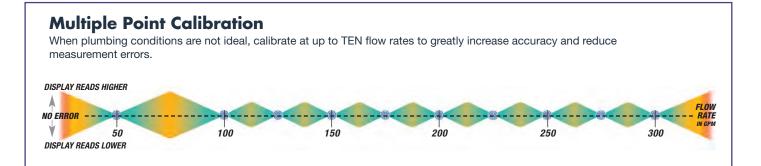
INSIGHT series displays are specifically designed for use on fire apparatus. These hi-tech indicating devices are compact and built rugged to withstand the conditions found at fire scenes today. INSIGHT displays are used by the largest fire departments in the world and have a proven track record.

EXCLUSIVELYFRC

CALIBRATE UP TO TEN DIFFERENT FLOW RATES

Flowmeters should provide accurate readings at low, medium, and high flow rates. FRC flowmeters have a unique calibration program with the flexibility to ensure accuracy at up to ten different flow rates when plumbing conditions do not allow for non-turbulent flow.





COLOR KEY

■ CALIBRATION POINT VERY ACCURATE, low chance of error in the flow rate reading on the display ■ CLOSE TO THE CALIBRATION POINT low chance of error in the flow rate reading on the display AWAY FROM THE CALIBRATION POINT higher chance of error in the flow rate reading on the display



EXCLUSIVELYFRC

EXPANDED 50 PSI to 250 PSI SCALE

for more precise pressure readings in the most commonly used ranges

REMOTE DISPLAYS, SUMMING AND ACCUMULATING

All FRC INSIGHT series displays are designed to share information over the FRC datalink. This technology allows for remote displays, the display of actual flow rate through multiple discharges (summing) and the total flow through multiple discharges (accumulating).

are er the bws f actual BISPLAY rges Repeatings ugh g). DISCHARGE

Color Scheme for Labels on Discharge and Intake Controls as recommended by NFPA 1901 Table A.16.9.1

Discharge Color Preconnect #1 Orange or front bumper jump line Preconnect #2 Red Preconnect #3 or Discharge #1 Yellow Preconnect #4 or Discharge #2 White Discharge #3 Blue Discharge #4 Black Green Discharge #5 Deluge/deck gun Silver Water tower Purple Large diameter hose Yellow w/White border* Foam line(s) Red w/White border * Booster reel(s) Grey Inlets Burgundy

* FRC does not offer a white border

ORDERINGINFORMATION

	includes display module, iount, and cables. GPM LPM Remote Only		LPM/kPa LPM/Bar
XXX =	Flow sensor mount p	pipe diameters (in	ries with mount type.) 1 inches): 0, 05.0, 06.0, 08.0, 12.0
-SC1 -ST1 -SS1	sensor mount and add to Saddle Clamp Weldment, Steel Weldment, Stainless 1 to a 2 to order a sensor	-AL1 Weld -PT1 Pipe Custom Space	rs Available

1.800.645.0074

INSIGHT Ultimate

STANDARD KIT includes display module, flow
sensor w/mount, pressure sensor, and cables.FPA400-XXXGPM/PSIFPA410-XXXLPM/kPaFPA420-XXXLPM/BarFPA400-000Remote Only GPM/PSIFPA410-000Remote Only LPM/kPaFPA420-000Remote Only LPM/kPa

Dimensions:

DFA400 & FPA500 3.25^{°°}(H) x 3.25^{°°}(W) FPA400 4.4^{°°}(H) x 4.4^{°°}(W)

Options: Color Coded Bezel External Totalizer Button (Ultimate Only) Backlit Display (Ultimate Only)

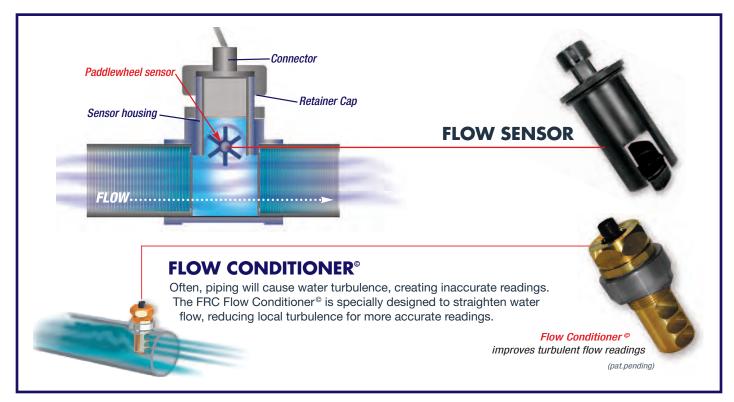


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EXCLUSIVELYFRC

PADDLEWHEEL FLOW SENSOR

is mounted in the pipe so that only the paddles extend into the flow. The paddlewheel is free spinning, resistant to damage from debris in the water and presents no impedance to flow. The sensor generates electrical pulses that are proportional to the rate of flow. This flow sensor is dependable and virtually maintenance-free.

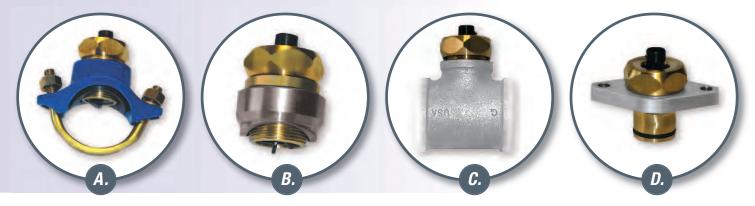


To achieve best results, choose the proper flow sensor location.

Plumbing that distorts smooth water flow such as elbows, expansions or valves need to be considered when choosing a flow sensor location. Refer to FRC flowmeter manuals for mounting location recommendations.

FLOW SENSOR MOUNTING OPTIONS

- A. Saddle Clamps are the standard mountings for 2" through 6" pipe sizes.
- B. Weldment fittings are available in aluminum, steel, and stainless steel.
- *C. Pipe Tee fittings* are NPT threaded, ranging from 1" through 4" for applications where standard pipe fittings are the easiest solution.
- D. Custom Adapters are available for discharge applications where a spacer is the only thing that will fit.





MONITORINGSYSTEMS



SBA100 12 Seat Monitor with Lateral G Indicator and Message Display



SBA200 12 Seat Monitor with Message Display



VEHICLE CAB DISPLAYS



SBA300 12 Seat Monitor



SBA400 6 Seat Monitor



VDR & Seat Monitor for Ford F-Series Super Duty Trucks*

Meets NFPA 1901 Requirements *Kit Ordered as a Ford ship-thru option

Order the Ford systems with the FRC 6-Seat Monitor as an upgrade option. Ford Systems can be ordered with the wireless or USB Port VDR.

VDR INPUTS

Information is sent from these devices to the VDR

Seat Occupied & Belt Status Ignition Switch Parking Brake Interlock Master Optical Warning Vehicle J1939 CAN

FRC





VDR OUTPUTS VEHICLE DATA RECORDERS

FRC Vehicle Data Recorders meet all NFPA1901 requirements for recording, storing, and uploading data.

All data is password protected.





12 Seat Wireless



12 Seat USB



6 Seat USB

DATA TRANSFER

Data from the VDR is uploaded via USB cable or wirelessly using our interface module or data collector CELESCER SOFTWARE THE RESERVE CORE WITH MARKED THE SOFTWARE

Our proprietary HAWK Software is the complete VDR data management package.

PC Wireless Interface



Data Collector





HAWK SOFTWARE IS AN INTEGRAL PART OF THE SEAT MONITOR AND DATA ACQUISITION SYSTEM



HAWK Menu Tabs Make Accessing Tasks Simple and User Friendly



- Review and Generate Customized Reports
- Secure Communication with the VDR
- Organize Multiple Site Locations

on a desktop or laptop computer

Manage Mulitple Fleet Vehicles

Install the HAWK Data Management Software

- Limit Access to Authorized Users
- Syncronize the Data Collector with HAWK

HAWK SOFTWARE Allows You to ...

1.800.645.0074

...Set-Up Multiple User Profiles with Different Levels of Access

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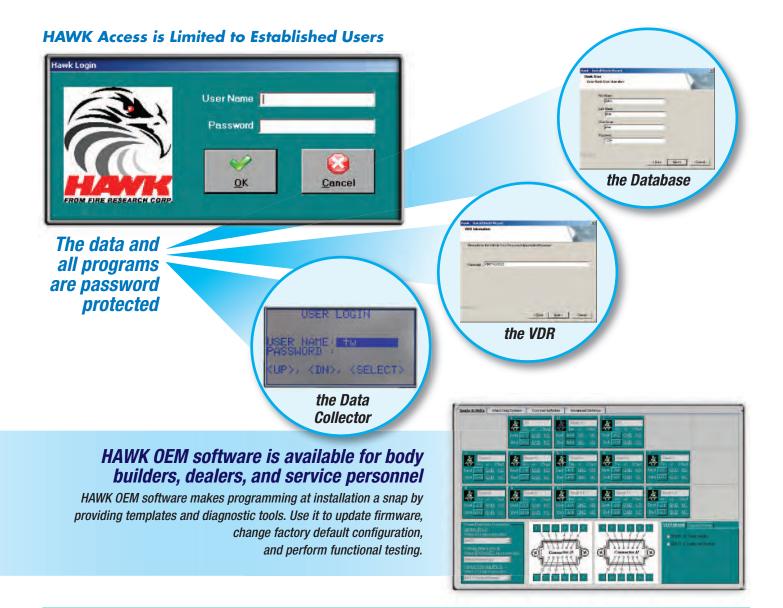
...Enter Vehicle Profiles and Site Information



Sort Data by Specific Criteria, Customize and Generate Reports

From 05/19/2009 06:24:00 PM 👻		To 05/19/2009 06:25:00 PM					Rouge			
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ORDERINGINFORMATION

STANDARD KIT includes display module, Vehicle data recorder, cables, and HAWK software.

v/Lateral G	w/o Lateral G	12-Seat				
Indicator	Indicator	Miniature	Descriptio	n		
SBA100	SBA200	SBA300	Wireless VDR & Seat Monitor System			
SBA110	SBA210	SBA310	Wireless VDR & Seat Monitor System w/ PC Wireless Interface			
SBA120	SBA220	SBA320	SBA320 Wireless VDR & Seat Monitor System w/ Data Collector			
SBA130	SBA230	SBA330	30 Wireless VDR & Seat Monitor System w/ PC Wireless Interface & Data C			
SBA143	SBA243	SBA343	SBA343 USB VDR & Seat Monitor System			
Seat Syst	em Kit Numbers	i				
SBA441	6-Seat Miniat	ure USB VDR & S	Seat Monitor S	system		
play Dimen	sions:			VDR Dimensions:		
A100 & SBA200 • 4.5" (H) x 4" (W) x 1.44" (D) A300 & SBA400 • 2.88" (H) x 5.1" (W) x 1.3" (D)				12-Seat • 3.75" (H) x 9.88" (W) x 2.5" (D)*		
				6-Seat • 3.8" (H) x 5.9" (W) x 1.9" (D)		
AGOU & GDATOU * 2.00 (A) X 5.1 (W) X 1.5 (D)			1.0 (D)	*5.63" with wireless antenna extended		





FEATURES

- Superior Noise Reduction
- Background Noise Monitoring Circuit to Detect and Suppress Excessive Noise Produced by the Engine and Pump
- Clear, Crisp and Loud Sound for Accurate and Precise Communication
- Superior Fireground Intercom has a Rugged Design to Meet the Different Mounting Requirements and the Demanded Reliability

SYSTEM OPTIONS

Handheld Microphone

This option is for installation in high noise areas. The microphone quickly plugs into the master station box. The system can be keyed to transmit with the microphone switch or the PTT button.

Remote Station with PTT (Push-To-Talk) Button

This option is for installations where a remote station with hands-free operation is not required. The PTT button must be pressed for the remote station to transmit.

ICA900 SYSTEM FEATURES

Master station comes with Push-to-Talk (PTT) and volume control buttons

Standard 2-way and 3-way communication:

- 2-way communication available with remote station hands-free or PTT
- 3-way communication available with one remote station hands-free and one remote station PTT or two remote stations PTT

Versatile Mounting Options:

- Separate control module and speaker box
- Speaker box can be mounted at remote location when space is limited
- Choice of surface or bracket mount

ORDERINGINFORMATION

5.125" by 5.125" (w/o Mounting Bracket)

STANDARD KIT includes : 2 or 3 Stations, Fused Power Input, and Cables.

Kit Numbers Description

ICA100	2-Station, Interior
ICA200	2-Station, Surface Mount
ICA300	3-Station, Surface Mount
ICA400	2-Station, Flush Mount
ICA500	3-Station, Flush Mount

All Master B or Remote stations for above kits are available as surface or flush mount.

2- or 3-Station

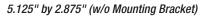
Options:

- Hand-Held Microphone and Jack on Master (A) Station
- Hand-Held Microphone and Jack on Master (B) Station
- Push-To-Talk Button on Remote Station (2-Way systems only)
- Additional Speaker (2-Way systems only)



ICA900







FRC INTERCOMS MEET THE DEMANDING NEEDS OF RESCUE AND FIRE SERVICE PERSONNEL FOR TWO OR THREE-WAY COMMUNICATION.



5.25" x 4" x 1.5"



4.25" x 3.25" x 1.5"

ICA100

INTERIOR Intercom System for Ambulances and Rescue Vehicles

Master station shown with hands free remote

ICA200 • ICA300 SURFACE MOUNT Intercom System for Indoor/Outdoor Use

Master station with volume knob and PTT button. Shown with hands free remote.



8.25" x 5.625" x 3" (w/o Mounting Bracket) INTERCOM

5.25" x 5.25" x 2.25" (w/o Mounting Bracket)



6.25" x 7.25" (panel dimensions)

5.625" x 6" (panel dimensions)

ICA400 • ICA500 FLUSH MOUNT

Intercom System for Indoor/Outdoor Use

Master station with volume knob and PTT button. Shown with hands free remote.

FRC Basic Two-Way Systems

The basic two-way intercom system includes a master station with volume and Push-to-Talk (PTT) controls and a remote station that provides hands-free operation. The remote station is always in transmit mode unless interrupted by a transmission from the master station.

FRC Basic Three-Way Systems

The basic three-way intercom system includes two master stations (A and B) with volume and PTT controls and a remote station that provides hands-free operation. The remote station is always in transmit mode unless interrupted by a transmission from a master station. Master station A has transmit priority over the two other stations.





MAKE YOUR SEARCH SAFER

The Safer Search System is simple to deploy, improves search accountability for team members, and makes large difficult area searches more manageable and safer for all firefighters.

SAFER SEARCH SYSTEM LETS YOU KNOW:

1.800.645.0074

- Exactly How Far You Have Advanced Into the Search Area
- Exactly Which Direction to Go and How Far It Is to Get Out
- Tag Lines Allow You to Sweep the Search Area Systematically
- Entire System is Contained in a Heat Resistant Vinyl Bag with Distance and Direction Markers

ORDERINGINFORMATION

Device and Marker Kit

SDA100-A20 Ma SDA100-A30 Ma	arch Device, Direction and Distance Markers to rkers for 200 feet of rope rkers for 300 feet of rope rkers for 400 feet of rope	fit on 1/4 to 5/16 inch rope (6 to 8mm)
SDA200-A20 200 SDA200-A30 300 SDA200-A40 400 SDA200-B20 200 SDA200-B30 300	er Search Device, Direction and Distance Marke feet of rope with standard tag lines feet of rope with standard tag lines feet of rope with standard tag lines feet of rope with retractable tag lines feet of rope with retractable tag lines feet of rope with retractable tag lines	A system with 200 feet of rope, a safer search device, and markers will weigh 11.5 lbs. and measure 15" x 12" x 7".



SEARCH SYSTEMS



Safer Search Device

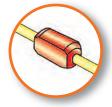
- Easily slides along the search rope
- Automatically locks in place at the Lock/Direction Markers
- Unlocking lever is simple to use with a gloved hand
- Large attachment loops are useful for tag lines, for multiple rope operations, or when connecting to a tie off point
- Made of anodized machined 6061-T6 aluminum

Lock / Direction Marker

- The lock/directional marker is set on the search rope every 25 feet
- The Safer Search Device automatically locks on this marker so firefighters know when to stop, assess conditions, communicate findings, and feel for the appropriate distance markers
- The position and shape of this marker shows the direction toward the egress/entry point or into the search area

Ball Distance Marker

The ball markers indicate 25 feet



Elliptical Distance Marker

The elliptical markers indicate 100 feet

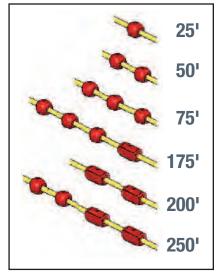


 The Safer Search Device System is supplied with PMI Rapid search line. Made of high tenacity nylon with a kevlar interior core

Stuff-Bag

3 sizes available to hold 200, 300, or 400 feet of rope
Two side pockets to store tag lines
Adjustable shoulder strap
Velcro™ closures

Made of 22 oz. rip stop vinyl, this bag holds everything you need to begin search operations









EXCLUSIVELYFRC

PUT YOUR PUMP OPERATOR BEHIND BARS

GIVE YOUR FIREFIGHTERS MAXIMUM SAFETY USING THE MANSAVER™

- The ManSaver[™] is a safety bar that mounts across the opening on walk-through pumpers. This innovative device will help prevent a fall from a walk-through.
- The ManSaver[™] is spring loaded so that it always returns to a horizontal position. There are no hooks to latch or harnesses to buckle. This clever design helps insure that the walk-through will always be protected as firefighters do not waste time closing or latching anything behind them. To enter, push the ManSaver[™] in or up. To exit, simply lift it.
- The ManSaver[™] is made of aluminum extrusion and aluminum bronze castings thereby making it rust proof. It is covered with a heavy layer of foam and a tough rip-stop vinyl outer covering to protect against injuries. Available in even sizes from 14 to 36 inches. Standard bar is provided with bright yellow vinyl cover, red is available upon request.
- The ManSaver[™] must be attached to a strong surface or sturdy support. Each bar is supplied with dependable, heavy-duty, grade-8 mounting bolts.



Patented



Two bars are required for applications shown on this page.



AERIAL BAR

Use the Aerial bar at the end of the ladder across from the opening to the bucket. Like the standard ManSaver, it is spring loaded so an operator doesn't have to remember to close or latch it.

The aerial bar is a variation on the standard ManSaverTM. This bar has a stainless steel U-shaped tube welded to it to cover more area and to help prevent a person from slipping underneath the bar. Designed for use at the top of an aerial device, at the back of the "bucket" where the ladder leads down to the elevated turntable.



- Opens in two directions (up and in)
- Available in two standard sizes of 24["] and 26["]
- Stainless loop welded under the bar provides added safety
- Spring loaded to always return to a closed position.
- 4 grade-8 mounting bolts are provided
- All aluminum extrusion and aluminum bronze castings
 cannot rust

AERIAL BAR MOUNTING

The standard bar mounts on the left as you enter the basket from the ladder. If this mount will interfere with a control panel in the basket, an aerial bar that mounts on the opposite side is available. The bar has a 6" or 10" stainless loop welded to an unpadded ManSaver[™].

BENCH SEAT BAR

Use the bar as an armrest or at the end of a bench seat.

- Opens vertically up and down
- Covered with a heavy layer of foam and a tough rip-stop vinyl outer covering
- Option to pin in upright position
- Standard bar is provided with a grey cover, other colors are available.

BENCH SEAT MOUNTING

The bench seat bar is normally mounted by the ambulance manufacturer. FRC works closely with these body builders and can supply the bar with matching vinyl as required. Otherwise, the bar mounts just as the standard ManSaver[™].

ORDERINGINFORMATION

STANDARD KIT includes one bar and mounting hardware

 Kit Numbers
 Description

 MSA110-AXX
 ManSaver Bar

 MSA120-AXX
 Platform Bar

 Bar w/o Pad & Cover
 Bar w/o Pad & Cover

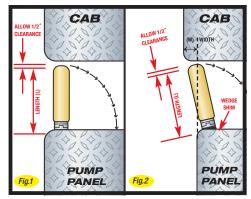
 MSA300-AXX
 Bench Seat Bar

 MSA406-AXX
 Aerial Bar with 6" loop

 MSA410-AXX
 Aerial Bar with 10" loop

XX = Length (in inches) ManSaver/Platform length: 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36" Bench Seat Bar: 16, 18, 20, 22, 24" Aerial Bar: 24, 26" Options : Cover Color • Decal Upright Pin • Rail Bracket

HOW TO MOUNT AT AN ANGLE



Measure the distance between mounting surface and opposite surface to obtain dimension L (see Fig. 1). Be sure to leave at least 1/2" clearance.

Measure the offset (how much wider one surface is than the other) to obtain W (see Fig. 2)

Use the wedge shim selection chart.

WEDGE SHIM SELECTION CHART

		Wedge Shim Type				
		A	B	С	D	
	18	2	3	4 1/2	6	
MANSAVER BAR Length (L) inches	20	2	3 1/2	5	7	
	22	2	4	6	7 1/2	
	24	2	4	6	8	
	26	2 1/2	4 1/2	6 1/2	9	
	28	2 1/2	5	7	9 1/2	
	30	2 1/2	5	7 1/2	10	
2	32	3	5 1/2	8	11	
	34	3	6	9	11 1/2	
		Offset Width (W) inches				

How to use the chart

(for example, assume L=26", W=7")

Select the length (L=26") of the ManSaver™ bar.

Read across the chart horizontally, select the width (W) on the chart that is equal to or less than the actual width measured and choose the corresponding shim type (In our example the closest value is 6 1/2", so the wedge shim required is Type C as shown by the shaded area on the chart.)



SAFETY

EXCLUSIVELYFRC

SKULLSAVER®

Protect firefighters from the hazard of protruding ground ladder ends at the rear of your apparatus.

Ground ladder ends that protrude from the rear of the apparatus are often the cause of nasty head bumps. A SkullSaver ground ladder end cover can help reduce injury caused by this type of accident. The thickly padded inner lining and bright yellow outer shell combine to create a safer environment for firefighting personnel.

- Outer Shell is Waterproof and Mildew Resistant
- Reinforced "Rip-Stop" Vinyl
- Inner Lining is Padded Heavy Duty 10 oz. Canvas
- Two Velcro[®] Straps Hold SkullSavers in Place
- Highly Reflective Lettering or American Flag Design

ORDERINGINFORMATION

Kit NumbersDescriptionSSA100-AXXAmerican Flag (not available in 22 inch)SSA200-AXXKeep BackSSA300-A00Single Leg (4 inch)XX = Size in InchesStandard Sizes: 22, 23, 25, 27 (the width of the ladder)

Options: Horizontal Format • Red Vinyl • Custom Sizes



FRC Jackstrap helps secure hose to apparatus to help prevent unwanted laydowns

The Jackstrap is a safety device that has been developed by FRC to help prevent fire hose from inadvertently coming off the apparatus while responding to, or returning from an incident.

It is made of heavy-duty 2" wide polypropylene webbing. The adjustable hose loop will fit on supply and working hose from 1-1/2 to 5 inches. A separate shoulder loop will help the firefighter when pulling a supply line or help support a working hand line. When used on a hydrant line, the shoulder loop can firmly hold the hose to the hydrant during a hose stretch. A side pocket on the shoulder loop securely holds a hydrant tool close at hand.

ORDERINGINFORMATION

Kit Numbers JSA100 Description Jackstrap

1.800.645.0074







HELPS SECURE HOSE TO HYDRANT



HELPS SECURE HOSE FOR CARRYING



SENSOR SPECIFICATIONS

PUMP

Intake Pressure

Model Number: Pressure Range: Proof Pressure: Excitation Voltage: **Output Voltage:** Thread Size:



Discharge Pressure

Model Number: Pressure Range: **Proof Pressure: Excitation Voltage: Output Voltage:** Thread Size:

typical pressure sensor

Model Number: Pressure Range: **Proof Pressure:** Excitation Voltage: **Output Voltage:** Thread Size:



Tank Pressure

Model Number: Pressure Range: **Excitation Voltage: Output Voltage:** Thread Size:

Pump Overheat

Model Number: **Contact Temperature: Reset Temperature:**

XE-WLPT4-S 0 to 5 PSI 5 VDC 0.5 to 4.5 VDC 1/4-18 NPT

XE-103100PT3-S

0.5 to 4.75 VDC

XE-FP4000PT3-S

0.5 to 4.75 VDC

XE-PR031PT3-S

0.5 to 4.75 VDC

1/4-18 NPT

0 to 300 PSI

1/4-18 NPT

800 PSI

5 VDC

1/4-18 NPT

0 to 600 PSI

1200 PSI

5 VDC

1200 PSI

5 VDC

Absolute to 600 PSI

XE-TPQ1-S 130 °F

115 °F

$\mathbf{O}\mathbf{W}$



Paddlewheel Flow Sensor

Model Numbers: Flow Velocity Range: 1.5 to 55 ft/sec **Output Signal: Output Frequency:**

XE-MF10P-S XE-MF15P-S (shown) 5 VDC Square Wave 1.25 to 1.50 Hz/ft/sec (nominal)

Maximum Pressure: 600 PSI

ALARM



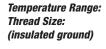
Audible Alarm (Buzzer)				
Model Number:	XE-FDBZ-A			
Voltage:	12 VDC			
Volume:	95 dB			
Diameter:	1-3/4"			
Mounting Hole:	1-1/8"			

ENGINE









Model Number:

Transmission Temperature

Static Resistance:

XE-TPT1-S 140 to 320 °F 1/8 NPTF 240 - 33 Ohms

ENERATOR



Hydraulic Oil Temperature

Temperature Range: Thread Size: Input Voltage: **Output Voltage:**

Current Sensors

Model Number: Ratio:

Model Number: Ratio:

Model Number:

400:5

Model Number: Ratio:

200:5

AC Transformer

Output Voltage:

Generator Engaged Detecting Circuit

Model Number: Input Voltage: **Output Voltage:** XE-TPG1-S 120/240 VAC 12 VDC

1.800.645.0074



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Model Number: Pressure Range: Thread Size:

Engine Oil Pressure

Static Resistance:

XE-TPP1-S 0 to 100 PSI 1/8 NPTF 240 to 33 Ohms

Engine Coolant Temperature

Model Number: Temperature Range: **Thread Size:**

XE-TPW1-S 100 to 250 °F 1/2-14 NPT

XE-TPW2-S

50 to 300 °F

5/8-18 UNF

16 mm - 1.5

Model Number: **Temperature Range: Thread Size:** Adapter Size:

XE-TPW3-S

50 to 300 °F 5/8-18 UNF

Model Number: **Temperature Range: Thread Size:**



Model Number:

XE-FDT2-S -40 to 230 °F 1/8-27 NPT 12 VDC 10mv/°F (1v at 100 °F)

XE-FDCT1-S

150:5 XE-FDCT2-S

300:5 XE-FDCT3-S

XE-FRCT4-S





Model Number: Input Voltage:

Ratio:



Learn more on-line or request our FoamPro and FRC full line catalogs of foam proportioning, LED lighting, pole mounts, and video systems



A Safe Fleet Brand

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1.800.645.0074

fireresearch.com



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facebook.com / fire.research.corp

