Electronics International Inc.

MVP-50P Configuration Worksheet

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0912191, Rev. D

General Information					
Customer Name:		Aircraft Make:		Aircraft Tail #:	
Email:		Aircraft Model:		# of Cylinders:	
Phone:		Engine Make:		Max HP:	
Aircraft Serial #:		Engine Model:			

Standard wire length shipped with all instruments is 8 feet.
☐ Extend to 12 feet cable length. ($250 additional charge)
☐ Extend to 20 feet cable length ($500 additional charge)

Other certification options:
☐ Include a Certificate of Conformance ($10)
☐ Include an 8130-3 ($195). Can add up to 2 weeks to lead time.

Ignition Configuration: ☐ 2 Mags ☐ 1 Mag + 1 SureFly ☐ 1 Mag + Electronic ☐ Other: _____

For each order, this worksheet MUST be completed and submitted, along with the following items:

1. **Specific pages from your POH/AFM:**
   - **POH/AFM Cover Page**
   - **Engine/Operations Limitations Page + the page before it and the page after it.**
   - **Power Plant/Engine Instrument Markings + the page before it and the page after it.**
2. **Any ADs/STCs/AFMs that affect the original power plant instrument markings.**
3. **Closeup color photos of the primary gauges in your aircraft panel (Optional, but helpful).**

<u>Function Selections:</u> The MVP-50P can display up to 29 functions. The first 3 functions are pre-selected below. Select the remaining functions by numbering them 4 through 29. All functions are included in the kit price except those with additional costs. Those prices are indicated below. Also indicate measurement units where applicable.

Function #	Function & Units (if applicable)	Function #	Function & Units (if applicable)
1	RPM		Carb Temp ☐ °F ☐ °C
2	EGT - All Cylinders ☐ °F ☐ °C		TIT ☐ °F ☐ °C (For turbo-charged aircraft)
3	CHT - All Cylinders ☐ °F ☐ °C		Hydraulic Pressure ☐ psi ☐ bar
	Manifold Pressure		IAT ☐ °F ☐ °C (For turbo-charged aircraft)
	Fuel Pressure (Must have Fuel Pump) ☐ psi ☐ bar		G-Meter (Does not have Peak Hold feature.)
	Fuel Pressure for Turbocharged A/C ☐ psi ☐ bar		OAT in °F
	Fuel Flow, Gravity Feed, No Fuel Pump		OAT in °C
	Fuel Flow, A/C w/Fuel Pump		Horsepower (Requires MP)
	Fuel Flow, A/C w/Pressure Carb		CDT ☐ °F ☐ °C (For turbo-charged aircraft)
	Fuel Tank 1		Cabin Pressure ☐ psi ☐ kft ☐ "Hg
	Fuel Tank 2		Cabin Differential Pressure ☐ "Hg ☐ psi
	Fuel Tank 3		CO Detector (additional $695)
	Fuel Tank 4		Local Time**
	Fuel Tank 5		Zulu Time**
	Fuel Tank 6		Engine Time**
	Oil Pressure ☐ psi ☐ bar		Tach Time**
	Oil Temp ☐ °F ☐ °C		Flight Time
	Volts ☐ 12V ☐ 24V		Pressure Altitude and Vertical Speed Indicator
	AMPS		☐ feet ☐ meters (additional $395)
	2nd AMPS (includes FM-VA-3 Module)		Other Annunciators/Status Indicators, Quantity: _____
	Vacuum Pressure ☐ psi ☐ "Hg		All annunciators/status indicators count towards the total displayable functions. Use the following pages to configure these.
	Airspeed ☐ kts ☐ mph ☐ kph		

Fuel Units
☐ US Gal
☐ Brit/Imp Gal
☐ Liter
☐ Pound

Choosing more than 4 fuel tanks will require a 2nd EDC, additional $1,496.

** Local Time, Zulu Time, Engine Time and Tach Time are built in and are displayed in a submenu. You may still select them as functions to display on the main screen.

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Aircraft Tail #: _____

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AMPS (if selected)	Measurement of: ☐ Battery Current ☐ Alternator Current

☐ Use the included 100-Amp Shunt.
☐ Use the included 300-Amp Shunt. Rarely required and reduces resolution to one amp.
☐ The aircraft's existing shunt will be used. Value is _____ Amps at _____ mV.

2nd AMPS (if selected)	Measurement of: ☐ Battery Current ☐ Alternator Current ☐ Other _____

☐ Use the included 100-Amp Shunt.
☐ Use the included 300-Amp Shunt. Rarely required and reduces resolution to one amp.
☐ The aircraft's existing shunt will be used. Value is _____ Amps at _____ mV.

Fuel Flow (if selected):	Total Usable Fuel: _____ Units: _____ (if not specified, US Gallons will be used) Default Full Level 2: _____

Fuel Tank Configuration (if selected)					Feed or Transfer?
Fuel Tank 1 Name:		Usable Fuel Level:		Type:	
Fuel Tank 2 Name:		Usable Fuel Level:		Type:	
Fuel Tank 3 Name:		Usable Fuel Level:		Type:	
Fuel Tank 4 Name:		Usable Fuel Level:		Type:	
Fuel Tank 5 Name:		Usable Fuel Level:		Type:	
Fuel Tank 6 Name:		Usable Fuel Level:		Type:	

Fuel Tank Sensor Type: ☐ Resistive Sensor ☐ E.I. P-300M Magnetic Sensor ☐ E.I. P-300C Capacitive Sensor
☐ CIES Volts ☐ CIES Frequency ☐ Penny Cap Capacitive or Other Sensor Type*

Bus Voltage: ☐ 12V ☐ 24V

*For Penny Cap & other probes contact E.I. Support to provide probe details.

Fuel sensors are not included in the kit price. Do you need to purchase fuel sensors? ☐ **Yes** ☐ **No**

☐ E.I. P-300M Magnetic Sensor Quantity: _____ ($496/sensor)
☐ E.I. P-300C Capacitive Sensor Quantity: _____ ($456/sensor)

Annunciators

Each annunciator requires a VI-221 interface, these are included in each instrument kit. Annunciator signals are wired into the EDC-33P which converts all of the engine and aircraft system signals into serial data. Please ensure that there are adequate channels on your EDC-33P for your annunciators.

Name (9 Character Max)	Pilot or Aircraft Activated?	ON-State Color (Red, Yellow, Green, Blue)	ON-State Voltage (12V, 24V, Bus, 0V, Ground or Open)	OFF-State Voltage (12V, 24V, Bus, 0V, Ground or Open)

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Aircraft Tail #: _____

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CHT Probe Type (if selected): For additional probe options contact E.I. Support	☐ 3/8" - 24 Screw-in (E.I. Model: P-100). Standard in the instrument kit. ☐ 3/8" Piggy-Back Gasket for Tanis Heaters (E.I. Model: P-102-3/8) ☐ 18mm Under Spark Plug Gasket-Style (E.I. Model: P-102-18)

TIT Probe Type (if selected):	☐ Hose Clamp (E.I. Model: P-110R) ☐ 1/8" NPT (E.I. Model: P-111) ☐ 7/16-20 (E.I. Model: P-112)	☐ 1/4" NPT (E.I. Model: P-114)

Status Indicators

Each status indicator or function requires a VI-221 interface, these are included in each instrument kit. Please ensure that there are adequate channels on your EDC-33P to support your functions.

Select	Function	Voltage to the EDC: LIGHT ON	Voltage to the EDC: LIGHT OFF
☐	**$995 Gear Status Option - Airspeed Always Included**		
	☐ **Option 1:**		
	Nose Gear Down		
	Main Left Gear Down		
	Main Right Gear Down		
	Gear Unsafe Light		
	☐ **Option 2:**		
	Gear Down Combined (provides signal for all gear indications, or use the individual functions above)		
	Gear Unsafe Light		

Select	Function	Voltage Range For Trim
☐	**Rudder Trim (OEM or Experimental Only)**	
☐	**Elevator Trim (OEM or Experimental Only)**	
☐	**Aileron Trim (OEM or Experimental Only)**	
☐	**Flap Position (OEM or Experimental Only)**	

I (the undersigned) have entered and verified all the information listed on this worksheet to be correct and I have supplied all required excerpts of the aircraft's POH/AFM, including any changes mandated by any AD's, Supplements and STC's. When necessary, I have checked with my FAA certified mechanic to ensure all of the information listed above and all documents that I am supplying are correct.

☐ I have verified that my aircraft make and model are listed on the applicable STC/AML for this instrument.

☐ My aircraft is experimental or I am working with the FAA for installation approval.

Any configuration changes after this form is submitted may incur a reconfiguration fee. I understand there is important safety information in the Installation and Operating Instructions that must be read before installing the MVP-50P and flying the aircraft.

Completed by: ☐ **Owner** ☐ **Pilot** ☐ **Technician** ☐ **Other** _____

Printed Name	Signature	Date

Hand Signature or Encrypted Digital Signature required.