



Please read this comparison of products very careful it represents plane facts with no fish stories.

**Truth in advertising:**

*JPI Sued Electronics International for FALSE information on there web page. JPI was awarded \$45,000 in damages in LA Superior Court. This should speak for it self.*

Questions:	EDM-700/800	UBG-16
<p><b>What does FAA TSO and PMA mean to me. TSO means a safe flight.</b></p>		
<p><b>TSO (Technical Standard Order) and PMA (Parts Manufacturer Approval)</b></p> <p>TSO is an FAA order directing the Manufacture to submit a plan of testing based on RTCA DO-160. It includes High/Low (-40 to 85°C) temperature, Vibration/ Crash survival, High Altitude Operation (25,000 ft min), Magnetic effect, Radio emissions/susceptibility and Lighting hit. The EDM-700/800 is then reviewed by several FAA departments. Software is directed to meet RTCA 178 level C. A TSO will easily cost the manufacture \$100,000.</p> <p>PMA is usually used for simple parts and instruments. PMA is a method of getting FAA approval without spending the money to test every component in the instrument. It does not require any of the above testing and is granted by a single FAA department. Software is not controlled and is not to level C. That is why JPI offers a three (3) year warranty that covers everything. The UBG-16 has a 1 year warranty that can be extended to a three year PROTECTION PLAN for \$129. <b>Electronics International DOES NOT have a TSOA on the UBG-16 or on the Fuel Flow.</b></p>	<p><b>TSO</b></p>	<p><b>PMA</b></p>
<p><b>Parts:</b> Every part used in a FAA certified aircraft <b>MUST</b> have the TSO markings or PMA stamped on it or it is <u>not airworthy</u>. Some add on boxes of UBG-16 have no marking??? JPI has no black boxes hanging off the instrument like the UG-16, JPI is stamped TSO on all parts. Our superior technology permits all JPI functions to be included in one box 2.25 x 7 inches,</p>		
<p><b>COST, is the JPI really Less Expensive? Yes, just compare</b></p> <p>Let us do a comparison function by function on a basic Four and six cylinder. JPI is top of the line and includes many options that we feel are required to do the job.</p>		
<p><b>JPI EDM-700-4C 4 cylinder</b></p> <ul style="list-style-type: none"> <li>• Complete System \$1450 that is it</li> <li>• Quick response probes included</li> <li>• Voltage w/alarms Free.</li> <li>• Data Record every 6 sec. for 20 Hrs. Free</li> <li>• Graphing and download software Free</li> <li>• TSO permits a 3 year warranty, included</li> </ul>	<p><b>UBG-16-4mem</b></p> <p>UBG-16-4mem... .....\$1598+</p> <ul style="list-style-type: none"> <li>• Quick response probes (not in kit if not requested) \$40.</li> <li>• Voltage option . \$195</li> <li>• Includes download software but you must buy the Graphing software \$125</li> <li>• One year warranty free</li> <li>• 3 year extended warranty.\$129.</li> </ul>	<p><b>\$1450</b></p> <p><b>\$2087.</b></p>

<b>Total \$1450</b>		<b>Total \$2087.</b>			
<b>JPI EDM-700-6C 6 cylinder</b> <ul style="list-style-type: none"> <li>• Complete System <b>\$2195 that is it!</b></li> <li>• Quick response probes included</li> <li>• Voltage w/alarms Free.</li> <li>• Data Record every 6 sec. for 20 Hrs. Free</li> <li>• Graphing and download software Free</li> <li>• 3 year warranty included</li> </ul>		<b>UBG-16-6mem</b> UBG-16-6mem... <b>\$1948</b> <ul style="list-style-type: none"> <li>• Quick response probes (not in kit if not requested) <b>\$60.</b></li> <li>• Voltage option <b>\$195</b></li> <li>• Includes download software but you must buy the Graphing software \$ 125</li> <li>• One year warranty free</li> <li>• 3 year extended warranty..<b>\$129.</b></li> </ul>		<b>\$2195</b>	<b>\$2457</b>
<b>Total \$2195</b>		<b>Total \$2457</b>			
<b>NOTE*** The above pricing was taken from the latest literature available. JPI feels so strong that we are the Best Buy, and most accurate, that JPI will give anyone a free option (\$165 value) with there order if it can be proven that the EDM-700 is more expensive and less accurate than our competition on a function for function basis.****</b>					
<b>Who displays voltage free, at no additional cost? JPI</b> JPI monitors voltage for High and Low alarms set by the pilot from the front panel.				<b>Yes</b>	<b>NO</b> <b>\$195 extra</b>
<b>Who includes Graphing software free, a download from internet at no additional cost? JPI</b>				<b>Yes</b>	<b>NO</b> <b>\$125 extra</b>
<b>How many functions can the instrument monitor and record?</b> A function is defined as RPM, EGT. CHT, OAT, VOLTS etc. For example, a 6 cylinder engine requires 6EGT's and 6CHT's = 12 functions. Our competition monitors ONLY 16 functions, that is why they call it the UBG-16, so even if their list of functions is a mile long, you must chose. In this case you can only have 4 additional functions. J.P.Instruments, the leader has, 29 all the time. Every item JPI lists can be monitored by one EDM. Get a free copy on CD or Download (JPITECH.com) and see all 29 functions plotted on a Mooney 231				<b>29</b>	<b>16</b> <b>no more at any price</b>
<b>Who includes Data Recording on all instruments Free? JPI</b>				<b>Free</b>	<b>NO</b> <b>\$395 extra</b>
<b>JPI's EDM-700/800 Data Storage built into the instrument Records all 29 function all the time, not just 16. Have you ever seen EI data?</b> 1440 hrs at 6 minute rate 720 hrs at 3 minute rate 240 hrs at 1 minute rate 24 hrs at 6 second rate		<b>UBG-16, Optional "Black Box" data recorder \$395. Box hangs off of the instrument unsupported at rear. Conclusion: Data Recording is NOT built into the UBG-16 as standard.</b> 690 hrs at 6 minute rate 345 hrs at 3 minute rate 115 hrs at 1 minute rate NA hrs at 6 second rate			
<b>How many functions can one instrument record?</b> JPI is a true recording instrument. Recording all 29 engine parameters every 6 seconds for 25 hours. The record rate can be changed to increase the time. The UBG-16 only records EGT and CHT. How can you analyze data if you do not record All engine conditions like Oil Temperature, RPM and Manifold Pressure.				<b>29</b>	<b>16</b>

<p><b>Who has the most Alarms? JPI</b>  Since JPI has more functions (29 not 16), we do have more alarms. We do not advertise frivolous alarms like LOW EGT and CHT but we do have them. JPI has so much information in its system it is impossible to tell it all in advertising . JPI even has diagnostic alarms which are not mentioned.</p>	<p><b>43</b></p>	<p><b>32</b></p>
<p><b>Who has self diagnostic testing inflight and on the ground? JPI</b>  The EDM will actually display any errors in the system. False alarms, in JPI’s view, are worse than no alarms, so the self diagnostic tests are running constantly in the background. If a probe problem is found, it is taken off-line. Other instruments would display false alarms.</p>	<p><b>Yes</b></p>	<p><b>NO</b></p>
<p><b>Who has a Complete Fuel Flow System? JPI</b>  J.P.Instruments has the <b>ONLY</b> Engine Monitor with a Fuel Flow System that monitors <b>Gal/Hr, Total Used, Fuel Remaining, MPG and also receives GPS signal, giving Gallons required to next way point or destination and records it ALL.</b> The UBG-16 only displays GPH. This is not a fuel flow system but a single function. It is misleading to imply it does more. The JPI system for rocket scientist is Crystal Controlled, meaning that our reference counter never changes (much more expensive). Others use astable oscillators which varies considerably with temperature. JPI’s Fuel Flow functions equal the FP-51 and more.</p>	<p><b>Yes</b></p>	<p><b>NO</b></p>
<p><b>Who has the most Accurate RPM?</b>  J.P.Instruments has the only <b>Crystal Controlled</b> RPM counter on both the EDM-700 and 800, accurate to 1 RPM. The UBG-16 has an RPM function but NOT crystal controlled and attaches to BOTH magnets “P” (shorting lead) or points. This produces ironies reading so it could be off by as much as 50 RPM. JPI strives to achieve Accuracy at any cost. JPI is using a magnetic pickup on ONE magneto.</p>	<p><b>Yes</b>  +/- 1 rpm</p>	<p><b>+/- 50 rpm</b></p>
<p><b>JPI has the fastest Responding grounded probes on the Market?</b>  What makes you remove your hand from a hot object? Hand Response! Your hand, the probe, senses the temperature change and signals the control center to remove the hand. If the response is slow, damage is done. No matter how good the Micro system is, the probe is the key. Since the engine peaks in seconds, the EGT must be fast or you will over lean the engine. It is a known fact that JPI, striving for accuracy, has the fastest responding probes. You can see this in the display of the EDM. The temperature is changing rapidly in the exhaust system. The UBG-16 probes are so slow that they can not record the small changes in temperature and so the display never changes. Cheap or poor designs require UNgrounded probes for to . JPI, Alcor, and Insign use grounded probes for quick response.</p>	<p><b>First</b></p>	<p><b>Worst</b></p>
<p><b>Who has the TRUE OVER-LEAN DISPLAY? JPI</b>  The EDM-700, 760 and 800 are the only instruments that provide the pilot with a bar-graph display of each cylinder as it goes over lean. Over-lean mode gives you a true picture of each cylinder’s EGT as it falls lean of peak. The Icicle Graph™ shows just how far each cylinder is below peak relative to the other cylinders. When your engine’s mixture is leaned to the last cylinder to peak, only the EDM can show you the True Measure of Fuel/Air balance. When the last cylinder goes over lean the Gami spread is calculated. JPI has worked with GAMI, the pioneers of over-lean, to produce this system. The UBG-16 ignored the over-lean possibility and the other just gives some digital information, nothing like JPI.</p>	<p><b>Yes</b></p>	<p><b>NO</b></p>
<p><b>Longest warranty</b></p>	<p><b>3yrs</b></p>	<p><b>1 yr.</b></p>
<p><b>Telling the truth:</b>  JPI Sued Electronics International for FALSE information on there web page. JPI was awarded \$45,000 in damages in LA Superior Court. This should speak for it self.</p>		

