



U.S. Department
of Transportation
**Federal Aviation
Administration**

**Transport Airplane Directorate
Aircraft Certification Service**

1601 Lind Avenue Southwest
Renton, Washington 98057

JUL - 8 2009

In Reply
Refer To: 140S-GA-09-88

J. P. Instruments
P.O. Box 7033
Huntington Beach, CA 92646

Gentlemen:

We have completed our evaluation of your request to obtain an amendment to Approved Model List (AML) SA00861SE that will allow the installation of the J. P. Instruments fuel flow indicating system in several additional models of aircraft. We find that you have satisfactorily demonstrated compliance with the applicable certification regulations and accordingly, we have enclosed a copy of AML SA00861SE, dated July 6, 2009, for your information.

This STC is official FAA approval for your installation and may be used to authorize identical installation on other engines of the same model, subject to the limitations noted on the certificate. It may be transferred or otherwise made available to another party by means of a licensee arrangement in accordance with Title 14 Code of Federal Regulations section 21.47. You are requested to advise this office within 30 days after the transfer when you transfer or grant licensee rights to the STC in order that we may take the necessary recording or reissuance action.

If you agree to permit another person to use this STC to alter the product, it is your responsibility to give the other person written evidence of that permission in the form of a "permission statement." This permission statement should contain the agreement specifying the product to be altered, the STC number, and the person who is being given the consent to use the STC.

As recipient of this approval, except as provided in § 21.3(d), you are required to report any failure, malfunction, or defect in any product or part manufactured by you that you have determined has resulted or could result in any of the occurrences listed in § 21.3(c). The report should be communicated initially by telephone to the Manager, Propulsion Branch, ANM-140S, telephone number (425) 917-6512, within 24 hours after it has been determined that the failure, malfunction, or defect required to be reported, has occurred. In addition, written notification to the

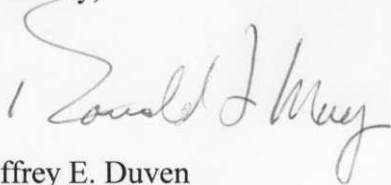
Manager, Seattle Aircraft Certification Office, ANM-100S, at the above address is required.

If you plan to manufacture replacement or modification parts for sale in conformance with approved data listed on the Certificate, you are required to comply with § 21.303. A parts manufacturer approval (PMA) may be issued under the provisions of § 21.303(d) when you submit a statement certifying you have established the fabrication inspection system as required by § 21.303(h). The identification requirements for parts produced under a PMA are in § 45.15. Your statement may be in letter form, with reference to the STC number, and should be addressed to the Federal Aviation Administration, Transport Airplane Directorate, Attention: Manager, Seattle Manufacturing Inspection District Office, 2500 East Valley Road, Suite C-2, Seattle, Washington 98057.

Since I am very much interested in the service we provide to the aviation community and the general public, it would be helpful if you would provide your thoughts and comments regarding how the approval process went. To gather this information, we have enclosed a short survey (with a self-addressed, stamped envelope) that I hope you will fill out and return. You will note that the return envelope is addressed to me. You may rest assured that your comments will receive my full attention and that I will hold your comments in strict confidence, should you request I do so. Please note that this customer service survey is common to all Aircraft Certification Offices within the FAA's Aircraft Certification Service and is aimed at enabling the Aircraft Certification Service to deliver the best services to each of our customers.

If you have any questions, please contact Mr. Richard Simonson of the Propulsion Branch at (425) 917-6507.

Sincerely,



for Jeffrey E. Duven
Manager, Seattle Aircraft
Certification Office

2 Enclosures

**J. P. INSTRUMENTS FAA APPROVED MODEL LIST FOR STC SA00861SE
FOR
INSTALLATION OF THE (FS-450) 450000 SERIES FUEL FLOW INSTRUMENT**

Issue Date: December 18, 2000

ITEM	AIRCRAFT MAKE	AIRCRAFT MODEL	TYPE CERTIFICATE NUMBER	CERTIFICATION BASIS FOR ALTERATION	AML REVISION DATE
1.	Aerostar (Piper)	PA-60-600, 601, 601P PA-60-602P, -700P	A17WE	FAR 23	12-18-2000
2.	Aerostar (Piper)	650, 680, 700, 700A, 700CR	A17WE	FAR 23	12-18-2000
3.	Aero Commander	100-180	1A21	CAR 3	5-31-2001
4.	American Champion Aircraft Corp.	8KCAB	A21CE	FAR 23	12-18-2000
5.	American Champion Aircraft Corp.	7GCBC, 7ECA, 7GCBA, 7GCAA, 7KCAB	A-759	CAR 4a	12-18-2000
6.	American Champion Aircraft Corp.	8GCBC	A21CE	FAR 23	4-9-2002
7.	American General Aircraft Holdings, Grumman	AA-5, AA-5A, AA-5B	A16EA	FAR 23	12-18-2000
8.	American General Aircraft Holdings, Grumman	AG-5B	A16EA	FAR 23	12-18-2000
9.	American General Aircraft Holdings, Grumman	AA-1, AA-1A, AA-1B, AA-1C	A11EA	FAR 23	4-9-2002
10.	American General Aircraft Holdings, Grumman	GA-7 Twin	A17SO	FAR 23	5-31-2001
11.	Aviat Aircraft Inc.	A-1, A-1A, A-1B	A22NM	FAR 23	4-9-2002
12.	Beagle (DeHavilland Support Ltd.) (British Aerospace)	B121 series 1, 2, and 3	A22EU	FAR 21.29 FAR 23	2-9-2004
13.	Beech	D-17S	A-649	CAR 3	11-30-2005
14.	Beech Twin	D18S, D18C, E18S, C-45G, TC-45G, C-45H, TC-45H, TC-45J or UC-45J (SNB-5), RC-45J (SNB-5P), G18S, JRB-6, 3N, 3NM, 3TM, P & W Wasps Jr.	A-765	CAR 3	5-31-2001
15.	Beech	E18S-9700	A-765	CAR 3	07-06-2009
16.	Beech	35-C33A, E33A, E33C	3A15	CAR 3	5-31-2001
17.	Beech	(YT-34) 45, (T-34A, B-45) A45, (T-34B) D45 Cont. E-225-8	5A3	CAR 3	12-18-2000

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18.	Beech	19A, M19A, A23-19, B19 C24R, B24R	A1CE	CAR 3	2-9-2004
19.	Beech	B23,C23	A1CE	CAR 3	12-18-2000
20.	Beech	35, A35, B35, C35, D35, E35, F35, G35, 35R	A-777	CAR 3	12-18-2000
21.	Beech	H35	3A15	CAR 3	07-06-2009
22.	Beech	J35, K35, M35, N35, V35, V35A, V35B, 35-33, 35-A33, 35-B33, 35-C33, 35-C33A, S35, P35, N35 E33, F33, F33A, F33C, G33, 36, A36, A36TC, B36TC	3A15	CAR 3	12-18-2000
23.	Beech	V35, V35A, V35B	3A15	CAR 3	5-31-2001
24.	Beech	G36	3A15	CAR 3	07-06-2009
25.	Beech	B50, C50, D50	A1CE	CAR 3	07-06-2009
26.	Beech	56TC, A56TC	3A16	CAR 3	07-06-2009
27.	Beech	58, 58A	3A16	CAR 3	12-18-2000
28.	Beech	58P, 58PA, 58TC, 58TCA	A23CE	FAR 23	12-18-2000
29.	Beech	95-55, -A55, -B55, -B55A, -C55, C55A, D55, D55A, E55, E55A	3A16	CAR 3	12-18-2000
30.	Beech	B95A, D95A, E95, 95-B55B	3A16	CAR 3	11-30-2005
31.	Beech	G58	3A16	CAR 3	07-06-2009
32.	Beech	60, A60, B60	A12CE	FAR 23	1-27-2003
33.	Beech	65-80, 65-A80, 65-A80-8800, 65-88, 65-B80	3A20	CAR 3	07-06-2009
34.	Beech	76	A29CE	FAR 23	1-27-2003
35.	Beech	95, B95	3A16	CAR 3	12-18-2000
36.	Bellanca	14-19-2	1A3	CAR 3	4-9-2002
37.	Bellanca	17-30	1A3	CAR 3	12-18-2000
38.	Bellanca	17-30A, 17-31, -A,	1A3	FAR 23	2-09-2004
39.	Bellanca	17-31ATC	1A3	FAR 23	2-9-2004
40.	Boeing Stearman	75, A75, E75, A75L300, A75, B75, A75N1, A75J1	A-743	CAR 4a	12-18-2000
41.	Boeing (Stearman)	A75L3 IB75A, E75N1, B75N1, D75N1	A-743	CAR 4a	07-06-2009

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ITEM	AIRCRAFT MAKE	AIRCRAFT MODEL	TYPE CERTIFICATE NUMBER	CERTIFICATION BASIS FOR ALTERATION	AML REVISION DATE
42.	Cessna	120, 140,	A-768	CAR 3	5-31-2001
43.	Cessna	140A	5A2	CAR 3	5-31-2001
44.	Cessna	150, 150A, B, C, D, E, F, G, H, J, K, L, M, A150K, A150L, A150M, 152, A152	3A19	CAR 3	4-9-2002
45.	Cessna	170, 170A, B	A-799	CAR 3	12-18-2000
46.	Cessna Cessna	172, 172A, B, C, D, E, F, G, H, 172 I, K, L, M, N, P, Q	3A12 3A12	CAR 3	12-18-2000
47.	Cessna	172R	3A12	FAR 23	12-18-2000
48.	Cessna	172S	3A12	FAR 23	1-27-2003
49.	Cessna	172RG, R172E, F, G, H, J, K, 175, 175A, B, C, P172D	3A17	CAR 3	12-18-2000
50.	Cessna	177, 177A, 177B	A13CE	FAR 23	12-18-2000
51.	Cessna	177RG	A20CE	FAR 23	12-18-2000
52.	Cessna	180, 180A, B, C, D, E, F, G, H, J, K	5A6	CAR 3	12-18-2000
53.	Cessna	182, 182A, B, C, D, E, F, G, H, J, K, L, M, N, P, Q, R	3A13	CAR 3	12-18-2000
54.	Cessna	182T, T182T	3A13	CAR 3	5-31-2001
55.	Cessna	182 Series, Air Planes Corp.	3A13	CAR3	12-18-2000
56.	Cessna	182S	3A13	FAR 23	12-18-2000
57.	Cessna	R182, T182, TR182	3A13	CAR 3	12-18-2000
58.	Cessna	185, 185A, B, C, D, E, A185E, A185F	3A24	CAR 3	12-18-2000
59.	Cessna	188, 188A, 188B, A188, A188A, A188B, T188C	A9CE	FAR 21	12-18-2000
60.	Cessna	195, -A, -B	A-790	CAR 3	12-18-2000
61.	Cessna	206, P206, P206A, B, C, D, E, TP206A, B, C, D, E, U206, U206A, B, C, D, E, F, G, TU206A, B, C, D, E, F, G	A4CE	CAR 3	12-18-2000
62.	Cessna	206H	A4CE	CAR 3	5-31-2001
63.	Cessna	T206H	A4CE	FAR 23	12-18-2000
64.	Cessna	207, 207A, T207, T207A	A16CE	FAR 23	12-18-2000
65.	Cessna	210, 210A, B, C, D, E, F 210-5, 210-5A, T210F, T10G, T210G, 210H, T210H, 210J, T210J, T210K, 210K, 210L, T210L, 210M, T210M, 210N, P210N, T210N, 210R, 210R, T210R	3A21	FAR 23	12-18-2000
66.	Cessna	T303	A34CE	FAR 23	1-27-2003

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67.	Cessna	310, 310A, B, C, D, E, F, G, H, E310H, E310J, 310I, J, K, L, N, P, Q, R 310J-1, T310P, Q, R, T310Q, 310R, T310R	3A10	CAR 3	12-18-2000
68.	Cessna	320, A, B, C, D, E, F, 320-1, 335, 340, 340A	3A25	CAR 3	12-18-2000
69.	Cessna	336	A2CE	CAR 3	12-18-2000
70.	Cessna	337, 337A, B, C, D, E, F, G, H, T337B, C, D, E, F, G, H, M337B, P337H, T337H-SP	A6CE	CAR 3	12-18-2000
71.	Cessna	401, 401A, B, 402, 402A, B, C, 411, 411A, 414, 414A, 421, 421A 421B, 421C	A7CE	CAR 3	12-18-2000
72.	Cessna	404	A25CE	FAR 23	2-9-2004
73.	Cessna (Columbia)	LC41-550FG	A00003SE	FAR 23	07-06-2009
74.	Chaparral Motors (Great Lakes)	2T-1A-1, -2	A18EA	AERO BULL 7-A FAR 23	07-06-2009
75.	Cirrus	SR-20	A00009CH	FAR 23	5-31-2001
76.	Cirrus	SR-22	A00009CH	FAR 23	1-27-2003
77.	Commander (Gulfstream America)	112, B, TC, TCA, 114, A, B, TC	A12SO	FAR 23	12-18-2000
78.	Consolidated Aeronautical (LanShe)	LAKE 250	1A13	CAR 3	07-06-2009
79.	De Havilland	DHC-2 Mk. I	A806	CAR 3	07-06-2009
80.	Enstrom Helicopter	F-28A	H1CE	CAR 6	07-06-2009
81.	EXTRA FLUGZEUGBAU	EA-300, S, L, EA-300/200	A67EU	FAR 21.29 FAR 23	12-18-2000
82.	EXTRA FLUGZEUGBAU	EA-400	A43CE	FAR 23	4-9-2002
83.	GENERAL AVIA	F20	A38EU	CAR 3	12-18-2000
84.	GENERAL AVIA	F22B F22C	A75EU	FAR 23	12-18-2000

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85.	Grumman (Dennis Buehn)	HU-16C	A23NM	FAR 21.25	1-27-2003
86.	Grumman	G-44, G44A,	A-734	CAR 4A	11-30-2005
87.	Helio (Alliance Aircraft)	H-295, HT-295, H-395	1A8	CAR 3	1-27-2003
88.	Helio (Alliance Aircraft)	H-391B	1A8	CAR 3	2-9-2004
89.	Helio (Alliance Aircraft)	H-391, H-800	1A8	CAR 3	11-30-2005
90.	Hughes Helicopter (Schweizer)	269A, 269A-1, 269B, 269C	4H12	CAR 6	07-06-2009
91.	Jobmaster Company	DGA-15P (Army UC-70, Navy GH-1, GH-2, GH-3, NH-1)	A-717	CAR 4a	12-18-2000
92.	Lancair	LC40-550FG	A00003SE	FAR-23	5-31-2001
93.	LanShe Aerospace LLC. (Micco)	MAC-145B	3A1	FAR23	2-9-2004
94.	Maule	MX-7-180, A, B MXT-7-180, A, B	3A23	CAR 3	12-18-2000
95.	Maule	MXT-7-160	3A23	CAR 3	1-27-2003
96.	Maule	M-7-260	3A23	CAR 3	12-18-2000
97.	Maule	M-7-260C, MT-7-260,	3A23	CAR 3	4-9-2002
98.	Maule	M-4-210, C, S, T, M-5-210C	3A23	CAR 3	12-18-2000
99.	Maule	M-5-180C, MX-7-180C, MX-7-235, -235C; M-4-220	3A23	CAR 3	07-06-2009
100.	Maule	M-5-200	3A23	CAR 3	2-9-2004
101.	Maule	M-5-235C	3A23	CAR 3	12-18-2000
102.	Maule	M-4-220C	3A23	CAR 3	5-31-2001
103.	Maule	M-4-220S,T, M5-235,	3A23	CAR 3	11-30-2005
104.	Maule	M-6-235, MX-7-180AC	3A23	CAR 3	4-19-2002
105.	Maule	M-7-235A, B, C, MT-7-235	3A23	CAR 3	4-9-2002
106.	Prop-Jet inc. (Meyers)	200B, C, D	3A18	CAR 3	4-9-2002

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125.	Piper	PA28-140,-150,-151,-160,-161,-180, PA-28S-180, PA-28S-160 PA28R-180	2A13	CAR 3	12-18-2000
126.	Piper	PA28-181, PA28R-200, PA28R-201, -201T, PA28-201T, PA28RT-201, PA28RT-201T	2A13	CAR 3	12-18-2000
127.	Piper	PA28-235, -236	2A13	CAR 3	12-18-2000
128.	Piper	PA30, PA39, PA40	A1EA	CAR 3	12-18-2000
129.	Piper	PA31-350	A20SO	CAR 3 FAR 23	12-18-2000
130.	Piper	PA31-325	A20SO	CAR 3	12-18-2000
131.	Piper	PA31	A20SO	CAR 3	1-27-2003
132.	Piper	PA31P	A20SO	CAR 3	11-30-2005
133.	Piper	PA32-300, PA32S-300, PA32R-301, PA32R-300, PA32-301	A3SO	CAR 3	12-18-2000
134.	Piper	PA32RT-300	A3SO	CAR 3	12-18-2000
135.	Piper	PA32-260, PA32RT-300T, PA32-301T	A3SO	CAR 3	12-18-2000
136.	Piper	PA32R-301T	A3SO	CAR 3	07-06-2009
137.	Piper	PA34-200, PA34-200T, -220T	A7SO	FAR 23	12-18-2000
138.	Piper	PA-38-112	A18SO	FAR 23	07-06-2009
139.	Piper Twin	PA44-180, -180T	A19SO	FAR 23	12-18-2000
140.	Piper	PA46-350P, PA46-310P	A25SO	FAR 23	12-18-2000
141.	Robinson Helicopter Co.	R22, R22 ALPHA, R22 BETA, R22 MARINER	H10WE	FAR 27	12-18-2000
142.	Robinson Helicopter Co.	R44	H11NM	FAR 27	12-18-2000
143.	Robinson Helicopter Co.	R44 II	H11NM	FAR 27	07-06-2009
144.	Sky Enterprises (Republic)	RC-3	A-769	CAR 3	12-18-2000
145.	Navion Aircraft Company LTD (Thompson)	Navion, Navion A, B with IO-470 Series eng.	A-782	CAR 3	12-18-2000
146.	Navion Aircraft Company LTD (Thompson)	Navion, Navion A, B, C, D, E	A-782	CAR 3	12-18-2000
147.	Navion Aircraft Company LTD (Thompson)	Navion F, G, H	A-782	CAR 3	12-18-2000

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148.	S.O.C.A.T.A Aerospatale	TB10, TB20, TB21,200	A51EU	FAR 21.29	12-18-2000
149.	S.O.C.A.T.A Aerospatale	TB9	A51EU	FAR 21.29	2-9-2004
150.	Siai-Marchetti	F.260, F.260B, F.260C, F260D, F.260E, F.260F	A10EU	FAR 23 CAR 10	12-18-2000
151.	Siai-Marchetti	F20	A38EU	FAR 23 CAR 10	12-18-2000
152.	Sky International (Pitts)	S-2B	A8SO	FAR 23	07-06-2009
153.	Univair Aircraft Corp. (Stinson)	108, 108-1, -2, -3, -5	A-767	CAR 3	07-06-2009
154.	Swift	GC-1B	766	CAR 4a	07-06-2009
155.	Twin Commander Aircraft Corp.	500-A, 685	6A1 2A4	CAR 3	12-18-2000
156.	Twin Commander Aircraft Corp.	500-B; 500-B, S, U with Merlyn STC SA01142SE or SA1212SE	6A1	CAR 3	11-30-2005
157.	VARGA Augustair, Inc.	2150A	4A19	CAR 3	07-06-2009
158.	Waco	F5, F5C	ATC 542	AERO BULL 7-A	07-06-2009

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Revisions: May 31, 2001 (Rev A), April 9, 2002 (Rev B), January 27, 2003 (Rev C), February 9, 2004 (Rev D), November 30, 2005 (Rev E),
07-06-2009 (Rev F)

FAA Approved *[Signature]*
for Manager, Seattle Aircraft Certification Office

Approval Date JUL -6 2009