

J.P. INSTRUMENTS
FAA APPROVED MODEL LIST (AML) NUMBER SA00678SE
FOR
INSTALLATION OF THE SLIM LINE® EGT 100 SERIES
PRIMARY INSTRUMENTS (CHT, TIT, OIL as applicable)

United States of America
Department of Transportation—Federal Aviation Administration
Supplemental Type Certificate

Number SA00678SE

This certificate, issued to:

J. P. Instruments
9621 Bay Meadows Drive
Huntington Beach, CA 92646

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified herein meets the airworthiness requirements of Part 21 of the Federal Aviation Regulations.

Original Product—Type Certificate Number: "See attached FAA Approved Model List (AML)

Make: No. SA00678SE for a list of the approved airplane

Model: models and applicable airworthiness regulations.

Description of the Type Design Change: Installation of J. P. Instruments Slimline EGT-100 series primary instruments in accordance with J. P. Instruments Installation Instructions 102S, Revision A, dated February 19, 1999, or later FAA approved revision. The instrument may be installed to monitor one of the following: cylinder head temperature, turbine inlet temperature, or oil temperature.

Limitations and Conditions: Approval of this change in type design extends to the airplane models listed on the AML only. This approval should not be extended to other aircraft of these models on which other previously approved modifications are incorporated unless it is determined that the relationship between this change and any of those other previously approved modifications, including changes in type design, will introduce no adverse effect upon the airworthiness of that aircraft. A copy of this Certificate and AML must be maintained as part of the permanent records for the modified aircraft.

If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application: May 26, 1998

Date received:

Date of issuance: March 5, 1999

Date amended:



By direction of the Administrator
(Signature)
Acting Manager, Seattle Aircraft
Certification Office
(Title)

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.
This certificate may be transferred in accordance with FAR 21.47.

FAA Form 8110-2 (10-88)

Approved: *(Signature)*
A. S. Pasion
Manager, Special Certification Branch
Seattle Aircraft Certification Office

Date: *March 5, 1999*

Subject: Permission to use STC.

To Whom It May Concern:

J.P. Instruments holder of STC SA00678SE
grants to the purchaser of the
SlimLine (PN EGT-100)
permission to use the STC.

Signed *(Signature)*

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ITEM	AIRCRAFT MAKE	AIRCRAFT MODEL	TYPE CERTIFICATE NUMBER	CERTIFICATION BASIS FOR ALTERATION	AML REVISION DATE
1.	American General Aircraft Holdings, Grumman	AA-5, AA-5A, AA-5B	A16EA	FAR 23	
2.	Beech	C35	A-777	CAR 3	
3.	Beech	35-A33, A36TC, B36TC	3A15	CAR 3	
4.	Beech Twin	58P, 58PA, 58TC, 58TCA	A23CE	FAR 23	
5.	Bellanca Inc.	17-31ATC	1A3	CAR 3	
6.	Cessna	170, 170A, B	A-799	CAR 3	
7.	Cessna	172, 172A, B, C, D, E, F, G, H, 172 I, K, L, M, N, P, Q	3A12	CAR 3	
8.	Cessna	172RG	3A17	CAR 3	
9.	Cessna	177, 177A, 177B	A13CE	FAR 23	
10.	Cessna	177RG	A20CE	FAR 23	
11.	Cessna	180, 180A, B, C, D, E, F, G, H, J, K	5A6	CAR 3	
12.	Cessna	182, 182A, B, C, D, E, F, G, H, J, K, L, M, N, P, Q, R	3A13	CAR 3	
13.	Cessna	R182, T182, TR182	3A13	CAR 3	
14.	Cessna	185, 185A, B, C, D, E, A185E, A185F	3A24	CAR 3	
15.	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	
16.	Cessna	207, 207A, T207, T207A	A16CE	FAR 23	
17.	Cessna	210, 210A, B, C, D, E, F 210-5, 210-5A, T210F, 210G, T210G, 210H, T210H, 210J, T210J, T210K, 210K, 210L, T210L, 210M, T210M, 210N, P210N, T210N, 210R, P210R, T210R	3A21	FAR 23	
18.	Cessna twin	310, C, D, E, F, G, H, E310H, 310I, J, K, L, N, P, Q, R 310J-1, E310J, T310P, Q, R, T310Q, 310R, T310R	3A10	CAR 3	
19.	Cessna twin	336	A2CE	CAR 3	
20.	Cessna twin	337, 337A, B, C, D, E, F, G, H, T337B, C, D, E, F, G, H, M337B, P337H, T337H-SP	A6CE	CAR 3	
21.	Cessna twin	401, 401A, B, 402, 402A, B, C, 414, 414A,	A7CE	CAR 3	
22.	EXTRA	EA-300, S, L, EA-300/200	A67EU	FAR 21, 29 FAR 23	

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ITEM	AIRCRAFT MAKE	AIRCRAFT MODEL	TYPE CERTIFICATE NUMBER	CERTIFICATION BASIS FOR ALTERATION	AML REVISION DATE
23.	GENERAL AVIA	F22B, F22C, F22R	A75EU	FAR 23	
24.	Jobmaster Company	DGA-15P (Army UC-70; Navy GH-1, GH-2, GH-3, NH-1)	A-717	CAR 4a	
25.	Maule	M-5-180C M-5-200 MX-7-180, A, B MXT-7-180, A, B, MXT-7-160 MX-7-160	3A23	CAR 3	
26.	Maule	M-5-235C	3A23	CAR 3	
27.	Mooney	M20E, F, J, K	2A3	CAR 3	
28.	Mooney	M20K (with Rocket Conversion TSIO520NB)	2A3	CAR 3	
29.	North American	AT-6 (SNJ-2), -6A, B, C, D, E, F, (SNJ-3, 4, 5, 6, 7)	A-2-575	CAR 3	
30.	Piper	PA-18S "105" PA-18 "125" (Army L-21A) PA-18S "125", PA-18AS "125", PA-18 "135" (Army L-21B), PA-18A "135", PA-18S "135", PA-18AS "135", PA-18 "150", PA-18A "150", PA-18S "150", PA-18AS "150",	1A2	CAR 3	
31.	Piper	PA-20, -20S, 20-"115", 20S-"115", PA-20-"135", -20S-"135"	1A4	CAR 3	
32.	Piper	PA-22, -22-108, -22-135, -22S-135, PA-22S-150, -22-160, -22S-160	1A6	CAR 3	
33.	Piper	PA 23, 23-160, PA-E23-250, PA-23-250	1A10	CAR 3	
34.	Piper	PA-24, -250, -260,	1A15	CAR 3	
35.	Piper	PA-28-140, -150, -151, -160, -161, PA-28-180, -28S-160, PA-28R-180	2A13	CAR 3	
36.	Piper	PA-28-181, PA-28R-200,	2A13	CAR 3	
37.	Piper	PA-28-235; -28-236	2A13	CAR 3	
38.	Piper	PA-30, PA-39, PA-40	A1EA	CAR 3	
39.	Piper	PA -31-350, PA-31-325	A20SO	CAR 3 FAR23	
40.	Piper	PA-60-600, -60-601, 60-601P PA-60-602P, 60-700P	A17WE	FAR 23	
41.	Robinson Helicopter Co.	R22, R22 ALPHA, R22 BETA R22 MARINER	H10WE	FAR27	

FAA APPROVED		MASTER ELIGIBILITY LIST J.P.INSTRUMENTS		REPORT 410 SHEET NO. 8	
MAKE	AIRCRAFT MODEL	T.C.D.S	P/N 400000 - XX - [() - ()] *		
Grumman	AA-1, -1A, -1B	A11EA	4-G300R2600		
Grumman	AA-1C	A11EA	4-G300R2700		
Gulfstream	AA-5, AA-5A, AA-5B	A16EA	4-G300R2700		
Commander Aircraft	112,112B	A12SO	4-G300R2700		
Commander Aircraft	112TC, 112TCA	A12SO	4-G300R2570		
Commander Aircraft	114,114A, B	A12SO	6-G300R2700		
Gulfstream (Twin Commander Aircraft)	500	6A1	6-G300R2575		
	500-A		6-G300R2620		
	500-B, U, S		6-G300R2620		
	520, 560, 560A, -E		6-G300Y3000R3400		
Gulfstream (Twin Commander Aircraft)	560F	2A4	6-G300Y3000R3400		
	680,E, 720		6-G300Y3200R3400		
	680-F, 680FL, 680-FL(P)		6-G300Y3200R3400		
	685		6-G300R3400		
Hughes Helicopter (Schweizer)	269A, (HO-360-B1A, 2900RL)	4H12	4-G300R2900		
	269A (O-360-C2D, 2700-2900)		4-G300Y2700R2900		
	269A-1,(H1O-360-B1A ,2900RL)		4-G300R2900		
	269B, 269C,(H1O-360-D1A,3200RL)		4-G300R3200		
Maule	Bee Dee M-4, M-4,-4C,-4S,-4T	3A23	4-G300R2700		
Maule	M-4-210,C,S,T, M-4-220C,S,T, M-4-180C,S,T	3A23	6-G300R2800		
Maule	M-5-180C, (Lyc 0-360-C1F,2000-2250, 2700RL) M-5-200.) MX-7-180, A, B, MXT-7-180, A, B, MXT-7-160, MX-7-160	3A23	4-G300R2000G2250R2700 4-G300R2700 4-G300R2700		

* See Part Number Designation on Sheet 13

FAA APPROVED		MASTER ELIGIBILITY LIST J.P.INSTRUMENTS		REPORT 410 SHEET NO. 5	
MAKE	AIRCRAFT MODEL	T.C.D.S	P/N 400000 - XX - [() - ()] *		
Cessna	140A	5A2	4-G300R2470		
Cessna	150,A,B,C,D,E,F,G,H,J,K A150K, 150L, A150L, 150M A150M	3A19	4-G300R2750		
Cessna	152, A152	3A19	4-G300R2550		
Cessna	170,170A,170B	A-799	6-G300R2700		
Cessna	172 172A,B,C,D,E,F,G,H	3A12	6-G300R2700		
Cessna	172, I, K, L, M,N,P, Q	3A12	4-G300R2700		
Cessna	172RG	3A17	4-G300R2700		
Cessna	R172E, F, G, H, J, (IO-360-D,-H, 2800RL) K, (IO-360K, 2600RL)	3A17	6-G300R2800 6-G300R2600		
Cessna	P172D,175,175A,B,C	3A17	6-G300R3200		
Cessna	177, 177A, 177B	A13CE	4-G300R2700		
Cessna	177RG	A20CE	4-G300R2700		
Cessna	180, (0-470-A,-J,-K, A&K 2800RL, 180 (0-470-J 2550RL) 180A,B,C,D,E,F,G,H,J 180K	5A6	6-G300R2600 6-G300R2550 6-G300R2600 6-G300R2400		
Cessna	182,182A,B,C,D,E,F,G,H,J,K,L,M,N,P 182,Q,R, R182, T182, TR182	3A13	6-G300R2600 6-G300R2400		
Cessna	185,185A,B,C,D,E	3A24	6-G300R2620		
Cessna	A185E,A185F	3A24	6-G30Y2700R2850		
Cessna	188,188A,188B A188,A188A, A188B T188C	A9CE	6-G300R2600 6-G300Y2700R2850 6-G300R2700		
Cessna	190, 195,195B 195A	A-790	7-G300R2200 7-G300Y2000R2200		

* See Part Number Designation on Sheet 13

FAA APPROVED		MASTER ELIGIBILITY LIST J.P.INSTRUMENTS		REPORT 410 SHEET NO. 6	
MAKE	AIRCRAFT MODE	T.C.D.S	P/N 400000 - XX - [() - ()] *		
Cessna	206,P206,P206A,B, C,D,E TP206A,B,C,D,E	A4CE	6-G300R2700 6-G300R2700		
Cessna	U206,U206A U206B,C,D,E,F,G TU206A,B,C,D,E,F,G	A4CE	6-G300R2700 6-G300Y2700R2850 6-G300R2700		
Cessna	207,207A	A16CE	6-G300R2700		
Cessna	T207,T207A	A16CE	6-G300Y2600R2700		
Cessna	210,210A	3A21	6-G300YR2620		
Cessna	210B,C	3A21	6-G300R2620		
Cessna	210D,E,F	3A21	6-G300R2700		
Cessna	210-5,210-5A T210F,T210G,T210H 210G,,210H, 210J	3A21	6-G300R2620 6-G30R2700 6-G30R2700		
Cessna	T210J, T210K,T210L 210K, 210L, 210M,210N,210R T210M,T210N, P210N P210R, T210R	3A21	6-G300R2700 6-G300Y2700R2850 6-G300Y2600R2700 6-G30R2700		
Cessna	305A,C,D,F	5A5	6-G300Y2300R2600		
Cessna Twin	310,310A,B	3A10	6-G300R2600		
Cessna Twin	310C,D,E,F,G,H,J, 310J-1, E310H, 310I, E310J 310K,L,N,P,Q	3A10	6-G300R2620		
Cessna Twin	310R, T310Q,T310P,T310R	3A10	6-G300R2700		
Cessna Twin	320,A,B,C, 320-1 320D,E,F,335, 340,340A	3A25	6-G300R2600 6-G300R2700		
Cessna Twin	321	3A11	6-G300R2600		
Cessna Twin	336	A2CE	6-G300R2800		

* See Part Number Designation on Sheet 13

FAA APPROVED		MASTER ELIGIBILITY LIST J.P.INSTRUMENTS		REPORT 410 SHEET NO. 7	
MAKE	AIRCRAFT MODE	T.C.D.S	P/N 400000 - XX - [() - ()] *		
Cessna Twin	337, 337A,B,C,D,E,F,G,H T337B,C,D,E,F,G,H, M337B (MIL), P337H T337H-SP, (TSIO-360-JB 2600-2800RL)	A6CE	6-G300R2800 6-G300R2800 6-G300Y2600R2800		
Cessna Twin	401, 401A,B, 402,402A,B,C	A7CE	6-G300R2700		
Cessna Twin	404, 406 (GTSIO-520M, 3350RL, 2235PROP @.667:1)	A25CE	6-G300R3350		
Cessna Twin	411,411A, (GTSIO-520C, 3200RL 2400Prop @.750:1)	A7CE	6-G300R3200		
Cessna Twin	414,414A	A7CE	6-G300R2700		
Cessna Twin	421,421A 421B, (GTSIO-520H, 3400RL 2275PROP @.667:1)	A7CE	6-G300R3400		
Cessna Twin	421C, (GTSIO-520H, 3350RL 2235PROP @.667:1)	A7CE	6-G300R3350		
Consolidated Aeronautical	C-1, C-2, LAKE LA-4, LA-4A, LA-4P	1A13	4-G300R2700		
Consolidated Aeronautical	LA-4-200	1A13	4-G300R2000G2350R2700		
Consolidated Aeronautical	LA-4-250	1A13	6-G300R2570		
De Havilland	DHC-2 Mk. I, DHC-2 Mk. II, DHC-2MK. III	A-806	9-G300Y2200R2300		
Enstrom Helicopter	F-28 F-28A,-28C, -28F, 280, 280C 280F, 280FX	H1CE	4-G300R2700 4-G300R2900 4-G300R3050		
GENERAL AVIA Costruzioni Aeronautiche	F22B, F22R F22C	A75EU	4-G300R2700 4-G300R2000G2250R2700		
GENERAL AVIA Costruzioni Aeronautiche Twin	F20 (IO-520F, 2700-2850RL) twin	A38EU	6-G300Y2700R2850		

* See Part Number Designation on Sheet 13