

United States Of America  
Department of Transportation - Federal Aviation Administration  
**Supplemental Type Certificate**

*Number* SA2586NM

*This Certificate issued to* J. P. INSTRUMENTS  
PO Box 7033  
Huntington Beach, CA 92646

*certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of Part 3 of the Civil Aviation Regulations, including respective Amendments as specified in the attached Approved Model List.*

*Original Product Type Certificate Number :* \* \*See attached FAA Approved J.P. Instruments

*Make :* \* Master Eligibility List No. SA2586NM for list

*Model :* \* of approved aircraft models and applicable TCDS

*Description of Type Design Change:*

Installation of J. P. Instruments temperature monitoring systems in accordance with FAA Approved J. P. Instruments Drawing List Report No. 100, Revision D, dated December 19, 1996, or later FAA approved revisions. FAA Approved Airplane/Rotorcraft Flight Manual Supplement No. 1 for EGT-701 temperature indicator, Revision A, dated December 13, 1996, or later FAA approved revisions.

*Limitations and Conditions:* The approval of the change in type design applies to the basic airplane of the specific models that are otherwise unmodified. This approval should not be extended to other specific airplanes of these models on which other previously approved modifications are incorporated, unless it is determined that the interrelationship between this installation and any previously approved configuration will not introduce any adverse effect upon the airworthiness of that airplane. 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. (See continuation sheet)

*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 :* December 31, 1984

*Date of issuance :* August 14, 1985

*Date reissued :*

*Date amended:* July 13, 1987, November 13, 1992, December 19, 1996, May 15, 1998, June 17, 1999

*By direction of the Administrator*



*[Handwritten Signature]*  
(Signature)

Manager, Propulsion Branch  
Los Angeles 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.*

United States Of America  
Department of Transportation - Federal Aviation Administration  
**Supplemental Type Certificate**  
(Continuation Sheet)

*Number* SA2586NM

Limitations and Conditions - continued

Cylinder head, oil, turbine inlet and/or exhaust gas temperature, fuel flow equipment, tachometer instruments, and manifold pressure instruments required by the original type design, or if required by other FAA approval, must remain installed and operable.

Aircraft listed on the FAA approved Master Eligibility List SA2586NM and that have been previously modified with a fuel flow indication system that utilizes the Flowscan fuel flow transducer (P/N: 201-A, 201-B, 201-C, or 231 or equivalent as listed on page 4 of the FAA Approved Installation Instructions, Drawing 103) are eligible for installation of the EGT-701 fuel flow option.

This certificate does not constitute installation approval of the fuel flow transducer.

EGT-701 temperature indicator with tachometer (rpm) and manifold pressure options are eligible for the 4 cylinder and 6 cylinder engines listed on the Master Eligibility List (MEL) SA2586NM only.

FAA Approved Airplane/Rotorcraft Flight Manual Supplement No. 1, Revision A, dated December 13, 1996 or later FAA approved revision, is required with the installation of the EGT-70 system.

Eligible dash numbers for the EGT-701 are listed on MEL SA2586NM.

A copy of this certificate must be maintained as part of the permanent records of the modified aircraft.

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*Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.*

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**MASTER ELIGIBILITY LIST**

**NO. SA2586NM**

**INSTALLATION OF THE EGT 100, 200 SERIES AND 701 SERIES TEMPERATURE**

**INDICATORS,  
FOR**

**EXHAUST GAS, CYLINDER HEAD TEMPERATURE MONITORING SYSTEM.**

**STC NUMBER: SA2586NM**

**DATE: AUGUST 14, 1985**

REV 14  
DATE: July 20, 2008

**FAA Approved**

**AUG 22 2008**

Los Angeles Aircraft  
Certification Office  
ANM 140 L 

REVISION LOG

TO FAA APPROVED MASTER ELIGIBILITY  
LIST NO. SA2586N

REVISION DATE NO. APPROVED	REVISION DESCRIPTION	SHEET 2
NC 8-14-85	<b>Initial Release;</b>	Sheets 1 thru 5
-1 9-23-85	<b>Addition of;</b> Cessna Models 320, 336, 340 and Piper Models PA-38, PA-44, PA-60 series; Sheet 6 Format changes and typing corrections Omission of "Approval Date" column on sheet 6 and subsequent sheets	
-2 7-22-86	<b>Addition of:</b> Gulfstream American 112, 114, AA-5, 560 and 680; Beech 50, 60, 65, 76, Series ; Bellanca 14-13 and 14-19 Series; Cessna 185, 188, and 321 Series; Maule M-4, M-5 and M-6 Series ; Piper PA-22, PA-32-301 Series ; Republic RC-3; Swift GC-1A and GC-1B Series;	Sheets 5,6 and 7
-3 7-13-87	<b>Addition of:</b> Piper PA-46-310P (Malibu), PA-31P (Navajo) <b>Suffix (O)</b> , added to instrument part number indicating Oil temperature PMA'd probe, P/N 400505,-L,-C. Applicable to all Lycoming and Continental direct drive piston engines. <b>Suffix (T)</b> added to instrument part number indicating turbine inlet temperature with probe P/N M-111 <b>Parenthesis ( )</b> added to any instrument part number, will indicate : " <b>None, Any or All</b> " of the options in parenthesis are applicable. Reorganized	Sheets ALL
-4 5-23-90	<b>Addition of:</b> Enstrom Helicopter F-28,-28A,-28C,-28F, 280, 280C, 280F; Hughes Helicopter 269A, 269A-1, 269B, 269C; Robinson Helicopter R22, R22-Alpha, R22-Beta, R22-Mariner; Mooney Aircraft M20L, M20M ; Siai-Marchetti S.205-18/F, -18/R, -20/F, -20/R, 22/R, S.208, S.208A, F.260, F.260B, F.260C ; S.O.C.A.T.A TB10, TB20, TB21 ; Partenavia Costruzioni P68, P68B, P68C, P68C-TC, P68TC, AP68TP 300. Piper PA-46-350P.	Sheets 2,5,6,8
-5 11-11-92	<b>Addition of:</b> EGT-701 (series) approved aircraft having for 4 or 6 cylinder engines only. Deleted aircraft model: Beech, all 90 series; Piper, PA-31T, -31T1,-31T2,-31T3.	Sheets 2,3,7
-6 11-09-95	<b>Addition of :</b> GENERAL AVIA Construzioni Aeronautiche F22B, F22R, F22C & F20; Mooney M20R ; Air Tractor AT-300, -301; Ayres Corp. 600S-2D,S-2R,S2R-R1340; Avions Pierre Robin R2160.	Sheets 3,6.
-7 12- 19 -96	<b>Addition of :</b> Added sheet 9 & 10 model designation system and Eligible Part Numbers. Revised all Part Numbers, all sheets. Added Fuel Flow suffix to P/N. Removed note "EGT-701 approved for 4 & 6 cylinder engines only". Added Cessna 170,A,B, 172R. Bellanca 17-30A series. AERO COMMANDER B-1, B-1A, . De Havilland, DHC-2 Mk.series, North American T-28A series, WACO series and Beech 45 series.	Sheets ALL
-8 07-14 -98	<b>Addition of :</b> Extra EA-300,S, L, EA-300/200. Maule MX-7-180C, MXT-7-180A, M-7-235, A, B, C, M-7-260, MT-7-260. Cessna 182S, 206H. Siai-Marchetti F.260D,E,F. Piper PA23-250	Sheets 4,5,6,8
-9 01-13-99	<b>Addition of :</b> Meyers (PROP-JETS, INC) 200, 200A, B, C, D. Gulfstream American GA-7. Beech Model D17S, SD17S, D17R, D17A. C17R, G17S. Piper PA-18 Series. Robinson R44 VARGA Series. Grumman G21. Corrected P/N. Was EGT-710 to EGT-701	Sheets 3,5,6,7,8
-10 06- 17 -99	<b>Addition of :</b> RPM & MAP to identification list for EGT-701	Sheet ALL
-11 05- 02 -00	<b>Addition of :</b> American Champ 8KCAB, 7GCBC, 7ECA, 7GCB, 7GCAA, 7KCAB. Beech 95-58, Cessna T206H. Gulfstream American 114 B, TC. Maule MXT-7-180 ,A ,B. Mooney (Rocket Conv. Per STC SA 00472SE & STC SA 5691NM) M20K, M20J. Pitts (Aviat) S-1S, S-1T,S-2, S-2A. Christen (Avait) A-1, S-2B. Mooney M-22., M20S, Jobmaster Comp DGA-15P. Weatherly 620, A, B. Thompson Navion C. Cessna U206A, B, C, D, E, F, G.(conv. Per STC 2123NM)	Sheets 3,5,6, 7, 8
-12 06-11-01	<b>Addition of :</b> American General GA-7 • Beech V35, A, B (STC SA1035WE) • Beech, 58, 76 • Lance, LC40-550FG • Cessna 140 (STC SA547EA) • 172,S,T• 182T, RS, T182T • 182E-Q (STC SA3825SW) • Cirrus SR-20 • Piper PA-18,18A-"150" (STC SA682AL, STC SA00035NY) • Piper PA-24-200	Sheets 1-4
-13 04-18-03	<b>Addition of :</b> Beech 77 • Cirrus 22 • Cessna T303 • Diamond Aircraft DA20-A1, DA20-C1,DA40 • Extra Flugzeugbau EA-400 • Slingsby T67M260, T67M260-T3A • Wilga 80, Wilga 2000, •Helio (Alliance Aircraft) H-295, HT-295, H-395, H-391, H-391B, H-700, H-800	Sheets 5, 6, 7, 9
-14 07-20-08	Addition of : American Champion Aircraft Corp., 8GCBC • Beagle (DeHavilland Support, Ltd.) B121 series 1,2,3 • Cessna F182P,Q, FR182 • Chaparral Motors, 2T-1A,-1,-2 • Maule, MXT-7-160, MX-7-180AC, M-5-200, M-7-260, M-4-220C, M-4-220S,T, MT-7-235, M5-235C • Micco Aircraft Co, MAC-145, 145A,B • Mooney M20TN • Moravan Inc. Z-242L,Z-143L • Pilatus Aircraft PC6/350, PC6/350-H1,-H2 • Piper, PA-12,-12S, PA-22-150 • Univair Aircraft Corp, 108, 108-1,-2,-3, 5 • WACO YMF (F5,F5C)	Sheets 2, 3, 4, 5, 6, 7  AUG 22 2008 ANM140L Los Angeles Aircraft Certification Office

1.	Air Tractor	AT-300,AT-301	A9SW	(9), (E)
2.	Avions Pierre Robin	R2160.	A48EU	(4), (A)
3.	Ayres Corp.	600 S-2D, S-2R, S2R-R1340 S2R-R3S	A3SW	(9), (E)
4.	AERO COMMANDER	B-1, B-1A 100-180	Lycoming IO-720-A1A A8WE A8WE	(8), (D) (4), (A)
5.	American Champion Aircraft Corp.	8KCAB	A21CE	(4), (A)
6.	American Champion Aircraft Corp.	8GCBC	A21CE	(4), (A)
7.	American Champion Aircraft Corp.	7GCBC, 7ECA, 7GCBA, 7GCAA, 7KCAB	A-759	(4), (A)
8.	American General Aircraft Holdings, Grumman	GA-7 Twin	A17SO	(6T*), (BT*)
9.	Beagle (DeHavilland Support Ltd.)(British Aerospace)	B.121 Series 1, 2, 3	A22EU	(4), (A)
10.	Beech	D18S, D18C, E18S, C-45G, TC-45G, C-45H, TC-45H, TC-45J or UC-45J (SNB-5), RC-45J (SNB-5P), E18S-9700, G18S, JRB-6, 3N, 3NM, 3TM, P7W Wasps Jr.	A-765	(9), (E)
11.	Beech	Model D17S, SD17S, D17R, D17A, C17R (Army UC-43E) G17S,	A-649 ATC-713 ATC-604 ATC-779	(9), (E) (9), (E) (9), (E) (9), (E)
12.	Beech	23,A23,A23A,A23-19,19A, B19,M19A,A23-24,B23,C23, A24,A24R,B24R,C24R	A1CE	(4), (A)
13.	Beech	(YT-34)45,(T-34A, B-45)A45,(T-34B) D45 Cont. E-225-8	5A3	(6), (B)
14.	Beech	35,A35,B35,C35,D35,E35, F35,G35,35R	A-777	(6), (B)
15.	Beech	H35,J35,K35,M35,N35,P35,S35, V35,V35A,V35B,35-33,35-A33, 35-B33,35-C33,35-C33A, E33,E33A,E33C,F33,F33A,F33C, G33,36,A36,A36TC,B36TC	3A15	(6), (B)
16.	Beech	V35, V35A, V35B with Optional engine TSI0-520 per STC SA1035WE	3A15	(6), (B)
17.	Beech	50, B50; D50,A,B,C,E, E-5990; E50,F,G,H,J	5A4	(6T), (BT)
18.	Beech	58, 58P, 58PA, 58TC, 58TCA	A23CE	(6T*), (BT*)
19.	Beech	60, A60, B60	A12CE	(6T*), (BT*)
20.	Beech	65, 65-80,65-A80,65-A80-8800, 65-88,65-B80,A65 A65-8200,70,	3A20	(6T), (BT)
21.	Beech	76	A29CE	(4T), (AT)
22.	Beech	77	A30CE	(4), (A)
23.	Beech	95,B95, B95A,D95A,E95,	3A16	(4T), (AT)
24.	Beech	95-55,-A55,-B55,-B55A -C55,-C55A D55,D55A,E55,E55A,56TC, A56TC, 58,58A, 95-58	3A16	(6T*), (BT*)
25.	Bellanca	14-13,14-13-2,-3, -3W	A773	(6), (B)
26.	Bellanca	14-19,19 -2, -3, -3A	1A3	(6), (B)

MAKE

AIRCRAFT MODEL

T.C.D.S. (See Sheet. 11 for Series)

	MAKE	AIRCRAFT MODEL	T.C.D.S.	(See Sheet. 11 for Series)
27.	Boeing Boeing	17-30,-A, 17-31,-A, 17-31TC,-A, (STEARMAN) A75L3,75,A75, B75, E75, A75, A75L300, IB75A, E75N1 A75J1, A75N1, B75N1, D75N1	A-743 A-743	(9), (E) (7), (C)
28.	Cessna	140	3A43	(4), (A)
29.	Cessna	120 , 140, with 0-200 Conversion per STC-SA547EA 140A, with 0-200 Conversion per STC-SA547EA	A-768 A-5A2	(4), (A) (4), (A)
30.	Cessna	150,A,B,C,D,E,F,G,H,J,K A150K, 150L, A150L, 150M, A150M, 152, A152	3A19	(4), (A)
31.	Cessna	170. 170A, 170B	A-799	(6), (B)
32.	Cessna  Cessna  Cessna  Cessna	172,172A,B,C,D,E,F,G,H,  172I,K,L,M,N,P,Q,R,S,T  172RG, P172D  R172E,F,G,H,J,K,175,175A,B,C	3A12  3A12  3A17  3A17	(6), (B)  (4), (A)  (4), (A)  (6), (B)
33.	Cessna  Cessna	177,177A, 177B  177RG	A13CE  A20CE	(4), (A)  (4), (A)
34.	Cessna  Cessna	180,180A,B,C,D,E,F,G,H,J,K  182,182A,B,C,D,E,F,G,H,J,K, 182L,M,N,P,Q,R, S, T R182, T182, TR182 , 182RS, T182T,	5A6  3A13	(6), (B)  (6), (B)
35.	Cessna	182 Series STC SA00152WI	3A13	(6), (B)
36.	Cessna	182E,F,G,H,J,K, L, M, N, P, Q(Peterson,STC SA3825SW)	3A13	(6), (B)
37.	Cessna	F182P, Q, FR182	A42EU	(6), (B)
38.	Cessna	185,185A,B,C,D,E,A185E,A185F	3A24	(6), (B)
39.	Cessna	188,188A,188B,A188,A188A, A188B,T188C	A9CE	(6*), (B*)
40.	Cessna	195,195A, 195B 190	A-790 A-790	(7), (C) (9), (E)
41.	Cessna	206,H P206,P206A,B,C,D,E, H TP206A,B,C,D,E, U206,U206A,B,C,D,E,F,G, TU206A,B,C,D,E,F,G T206H	A4CE	(6*), (B*)
42.	Cessna	U206,U206A,B,C,D,E,F,G, (Conv. Per STC 2123 NM)	A4CE	(6*), (B*)
43.	Cessna	207,207A,T207,T207A	A16CE	(6*), (B*)
44.	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	(6*), (B*)
45.	Cessna	310,310A,B,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	(6T*), (BT*)
46.	Cessna	321	3A11	(6T), (BT)
47.	Cessna	320,A,B,C,D,E,F,320-1,335, 340(,340A	3A25	(6T*), (BT*)
48.	Cessna	336	A2CE	(6T), (BT)
49.	Cessna	T303	A34CE	(6T*), (BT*)
50.	Cessna	337, 337A,B,C,D,E,F,G,H T337B,C,D,E,F,G,H, M337B,P337H,T337H-SP	A6CE	(6T*), (BT*)
51.	Cessna	401, 401A,B, 402,402A,B,C,	A7CE	(6T*), (BT*)

FAA approved AFM Supplement is required with the EGT-701. The EGT-701 is applicable to all EGT-100/200 series.  
RPM and MAP applicable to the P/N EGT-701,4 and 6 cylinder engines only

## Part Number

## MAKE

## AIRCRAFT MODEL

## T.C.D.S. (See Sheet. 11 for Series)

		411,411A, 414,414A 421,421A 421B,421C		
52.	Chaparral Motors (Great Lakes)	2T-1A, 2T-1A-1, -2	A18EA	(4), (A)
53.	Cirrus	SR-20	A00009CH	(6), (B)
54.	Cirrus	SR-22	A00009CH	(6), (B)
55.	Consolidated Aeronautical	LAKE C-1,-2, LA-4,LA-4A,LA-4P, LA-4-200 LAKE 250	1A13 1A13	(4), (A) (6*), (B*)
56.	Diamond Aircraft Ind.	DA20-A1, DA20-C1	TA4CH	(4), (A)
57.	Diamond Aircraft Ind.	DA40, HK36, HK36TC,TS,TTC,TTC-ECO	A47CE	(4), (A)
58.	De Havilland	DHC-2 Mk. I DHC-2 Mk. II DHC-3 P&W Wasp. R-1340	A-806 A-805	(9), (E) (9), (E)
59.	EXTRA FLUGZEUGBAU	EA-300 EA-300S EA-300L EA-300/200	A67EU	(6), (B)
60.	EXTRA FLUGZEUGBAU	EA-400	A43CE	(6*), (B*)
61.	Enstrom Helicopter	F-28,-28A, -28C, -28F, 280, 280C, 280F	H1CE	(4*), (A*)
62.	GENERAL AVIA Costruzioni Aeronautiche	F22B, F22R, F22C F20	A75EU A38EU	(4*), (A*) (6T), (BT)
63.	Grumman Grumman	AA-1, -1A, -1B, -1C AA-5,-5A,-5B AG-5B	A11EA A16EA	(4), (A)
64.	Grumman	G21, G21A	654	(9), (E)
65.	Gulfstream American	112,112TC,112B,112TCA,	A12SO	(4), (A)
66.	Gulfstream American	114, 114A, B, TC	A12SO	(6), (B)
67.	Gulfstream American American General Aircraft Holding Co.,	GA-7	A17SO	(4T), (AT)
68.	Gulfstream	AA-5, AA-5A, AA-5B	A16EA	(4), (A)
69.	Gulfstream American	500, 500-A, B, U, S, 520, 560, 560A, -E,	6A1	(6T), (BT)
70.	Gulfstream American	560F, 680, 680-E, F, 680FL, 680-FL(P), 685	2A4	(6T*), (BT*)
71.	Helio (Alliance Aircraft)	H-295, HT-295, H-395, H-391, H-391B, H-700 H-800	1A8 1A8	(6*), (B*) (8), (D)
72.	Hughes Helicopter	269A, 269A-1, 269B, 269C	4H12	(4*), (A*)
73.	Jobmaster Company	DGA-15P (Army UC-70; Navy GH-1, GH-2,GH-3, NH-1	A-717	(7), (E)
74.	Lancair	LC40-550FG	A00003SE	(6*), (B*)
75.	Maule	M-5-180C, -200, -210TC M-6-180 MXT-7-180, A, B MX-7-180,A,B, C	3A23	(4*), (A*)
76.	Maule	Bee Dee M-4, M-4,-4C,-4S,-4T M-4-210,C,S,T, M-4-220C,S,T M-4-180C,S,T, M-4-220, M-5-210C,-220C,-235C, M-6-235 MX-7-235,A,B,C M-7-235, A,B,C M-7-260, MT-7-260	3A23	(6*), (B*)
77.	Maule	MXT-7-160, MX-7-180AC, M-5-200	3A23	(4), (A)
78.	Maule	M-7-260, M-4-220C, M-4-220S,T, MT-7-235, M5-235C	3A23	(6), (B)
79.	Micco Aircraft Co	MAC-145, 145A,B	3A1	(6*), (B*)
80.	Mooney	M20, M20A,B,C,D,E,F,G,J	2A3	(4), (A)

FAA approved AFM Supplement is required with the EGT-701. The EGT-701 is applicable to all EGT-100/200 series.  
RPM and MAP applicable to the P/N EGT-701,4 and 6 cylinder engines only

## Part Number

MAKE	AIRCRAFT MODEL	T.C.D.S. (See Sheet. 11 for Series)	Part Number
	M20K, L, M, R, S		2A3 (6*), (B*)
81.	Mooney M20TN		2A3 (6*), (BT*)
82.	Mooney M22		A6SW (6T*), (BT*)
83.	Mooney Rocket Eng. Conv. M20K Rocket 305 ( per STC SA 5691NM)		2A3 (6T*), (BT*)
84.	Mooney Rocket Eng. Conv. M20J Missile ( per STC SA 00472SE)		2A3 (6T*), (BT*)
85.	Moravan Inc. (ZLIN) Z-242L, Z-143L		A76EU (4), (A)
86.	Meyers PROP-JETS, INC. 200, 200A, B, C, D		3A18 (6*), (B*)
87.	North American AT-6 (SNJ-2,-7),-6A,B,C,D,E,F, T-6G NA-260 (USAF T-28A) T-28A ,B,C,D Wright R-1300-1A NA-260 (T-28A Conversion )		A-2-575 (9), (E) 1A18 (9), (E) AR-30 (9), (E) 1A18 (9), (E)
88.	Partenavia Costruzioni Aeronautiche P68, P68B, P68C, P68C-TC, P68TC, AP68TP 300		A31EU (6T*), (BT*)
89.	Pilatus Aircraft Limited PC6/350, PC6/350-H1,-H2		7A15 (6*), (B*)
90.	Piper (FS2003 Corp.) PA-12, -12S		A-780 (4), (A)
91.	Piper PA-18, PA-18S, PA-18 "105" (Special), PA-18S "105" (Special) PA-18A, 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 (4), (A)
92.	Piper PA-18A-"150" PA-18 -"150" (Crosswinds STOL STC SA682AL) or (Penn-Yan, STC SA00035NY)		AR-7 (4), (A) 1A2
93.	Piper PA-20,-20S,20-"115",20S-"115" PA-20-"135", -20S-"135"		1A4 (4), (A)
94.	Piper PA-22, -22-108,-22-135, -22S-135, PA-22S-150,-22-160,-22S-160		1A6 (4), (A)
95.	Piper PA-22-150		1A6 (4), (A)
96.	Piper PA-23,-23-160 Piper PA-23-235, PA-250, E23-250 , 23-250		1A10 (4T), (AT) 1A10 (6T), (BT)
97.	Piper PA-24 Piper PA -24-250, -24-260 Piper PA-24-400		1A15 (4), (A) 1A15 (6), (B) 1A15 (8), (D)
98.	Piper PA-25 Piper PA-25-235, -260		2A8 (4), (A) 2A8 (6), (B)
99.	Piper PA-28-140,-150,-151,-160,-161, PA-28-180,-28S-160 Piper PA-28S-180,-28R-180,-28-181, PA-28R-200, PA-28-236; -28-235 PA-28R-201,-28R-201T -28-201T, PA-28RT-201,-28RT-201T,-28-201		2A13 (4), (A) 2A13 (6*), (B*)
100.	Piper PA-30, PA-39, PA-40		A1EA (4T), (AT)
101.	Piper PA-31,-31-300,-31-325,-31-350		A20SO (6T), (BT)
102.	Piper PA-31P,31P-350		A8EA (6T*), (BT*)

FAA approved AFM Supplement is required with the EGT-701. The EGT-701 is applicable to all EGT-100/200 series.  
RPM and MAP applicable to the P\N EGT-701,4 and 6 cylinder engines only

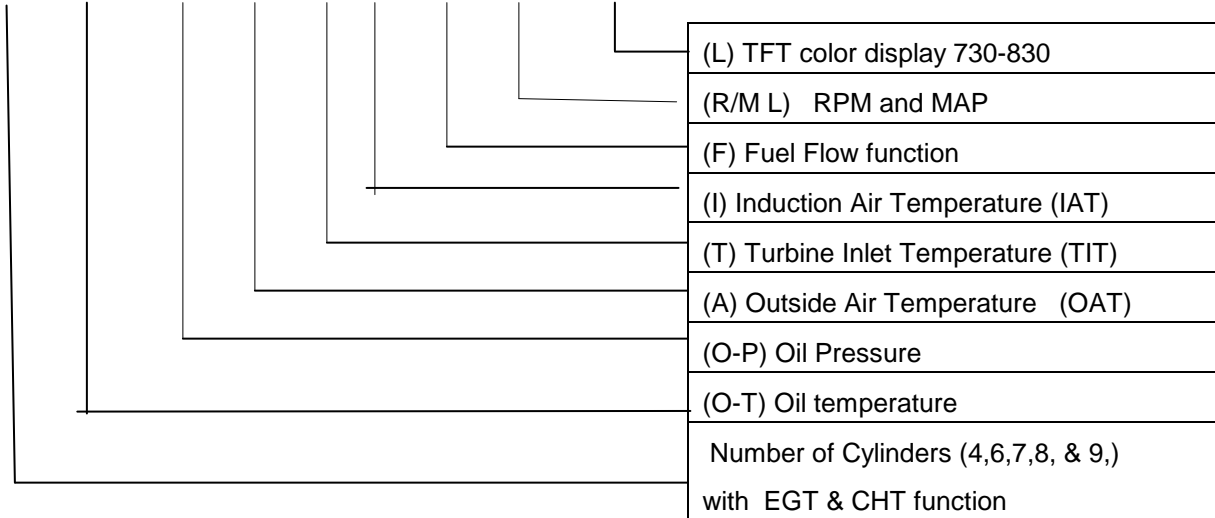


## Part Number

MAKE	AIRCRAFT MODEL	T.C.D.S. (See Sheet. 11 for Series)	Part Number
103.	Piper PA-32-260,-32-300,-32S-300 PA-32R-300, -32RT-300, -32RT-300T, PA-32R-301, -32R-301T, PA-32-301, -32-301T	A3SO	(6*), (B*)
104.	Piper PA-34-200	A7SO	(4T), (AT)
	Piper PA-34-200T,-220T	A7SO	(6T*), (BT*)
105.	Piper PA-38-112	A18SO	(4), (A)
106.	Piper PA-44-180, -44-180T	A19SO	(4T*), (AT*)
107.	Piper PA-46-310P,-350P	A25SO	(6T*), (BT*)
108.	Piper PA-60-600, -60-601, -60-700P, A, CR PA-60-601P, PA-60-602P, PA-60-650	A17WE	(6T*), (BT*)
109.	Republic RC-3	A-769	( 6 ), ( B )
110.	Robinson Helicopter R22, R22 ALPHA, R22 BETA, R22 MARINER R44	H10WE H11NM	(4), (A) ( 6 ), ( B )
111.	Siai-Marchetti S.205-18/F, -18/R, -20/F, -20/R, -22/R, S.208, S208A  F.260, F.260B, F.260C, F.260D, , F.260E, , F.260F,	A9EU  A10EU	(4), (A)  (6*), (B*)
112.	Slingsby T67M260, T67M260-T3A	A73EU	( 6 ), ( B )
113.	S.O.C.A.T.A Aerospatiale TB9,10,  TB20, TB21,200	A51EU  A51EU	(4), (A)  (6*), (B*)
114.	Univair Aircraft Corp, Stinson 108,108-1, -2, -3, -5	A-767	(6), (A)
115.	Swift GC-1A	766	(4), (A)
116.	Swift GC-1B	766	(6), (B)
117.	Thompson Navion, A ,B C, D ,E ,F,G ,H	A782	(6), ( B )
118.	VARGA Augustair, Inc. 2150, 2150A, 2180	4A19	(4), (A)
119.	WACO YMF, YKC, YKC-S, YKS-6, ZKS-6 UPF-7 VPF-7	ATC542 A-533 A-642	(7), (C) (7), (C) (7), (C)
120.	WACO YMF (F5, F5C modification per STC SA1000GL)	ATC 542	(7), (C)
121.	PITTS (AVIAT) White Inter.Ltd. S-1S, S-1T, S-2, S-2A, S-2S, S-2B	A8SO	(4), (A) (6), (B)
122.	Christen (AVIAT) White Inter./ Sky Inter. A-1, A, B	A22NM	(4), (A)
123.	Weatherly 620, A, B	A26WE	(9), (E)
124.	Wilga PZL-104 Wilga 80 PZL-104M Wilga 2000	A55EU	(9), (E) (6), (A)

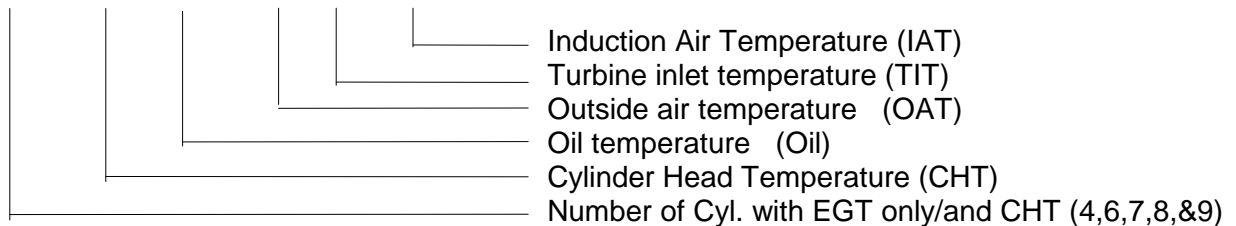
**Model designation system by part number for EGT-701**

EGT-701- [ ] C -OT [ ]-OP [ ] -A [ ] -T [ ] -I [ ] - F [ ] R/M L [ ] -L [ ]



**Model designation system by part number for EGT-100**

EGT-100- [ ] - C [ ] -O-T [ ] -A [ ] -T [ ] -I [ ]



**Example:** EGT-701 - (6C O-T A I R/M L) is indicated as such on the TSO label

EGT-701 - 6C - O-T [♦] O-P [ ] -A [♦] -T [ ] -I [♦] - F [♦] -R/M L [♦] -L [ ]

EGT 701 Model EDM 800

- 6 Cylinder
- Oil Temperature function
- OAT, Outside Air function
- IAT, Induction Air function
- RPM & MAP function
- Fuel Flow function

**ELIGIBLE PART NUMBERS for EGT-701 (series )**

Note (1) suffix "T" designates twins, two instruments required.

Note (2) suffix "\*" denotes turbocharged engines.

**Part number (Series)**

4 4 Cylinder with RPM & MAP	4 4 Cylinder	6 6 Cylinder with RPM & MAP	6 6 Cylinder	7 7 Cylinder	8 8 Cylinder	9 9 Cylinder	TIT
EGT-701-( )	EGT-701-( )	EGT-701-( )	EGT-701-( )	EGT-701-( )	EGT-701-( )	EGT-701-( )	
4C R/M L	4CL	6C R/M L	6CL	7CL	8CL	9CL	
4C0R/M L	4COTOPL	6COTOP R/M L	6COTOPL	7COTOPL	8COTOPL	9COTOPL	
4CA R/M L	4CAL	6CA R/M L	6CAL	7CAL	8CAL	9CAL	
4CT R/M L	4CTL	6CT R/M L	6CTL	7CTL	8CTL	9CTL	*
4CI R/M L	4CIL	6CI R/M L	6CIL	7CIL	8CIL	9CIL	
4CF R/M L	4CFL	6CF R/M L	6CFL	7CFL	8CFL	9CFL	
4COTOPA R/M L	4COTOPLA	6COTOPA R/M L	6COTOPAL	7COTOPAL	8COTOPAL	9COTOPAL	
4COTOPT R/M L	4COTOPTL	6COTOPT R/M L	6COTOPTL	7COTOPTL	8COTOPTL	9COTOPTL	*
4COTOPI R/M L	4COTOPI L	6COTOPI R/M L	6COTOPI L	7COTOPI L	8COTOPI L	9COTOPI L	
4COTOPF R/M L	4COTOPFL	6COTOPF R/M L	6COTOPFL	7COTOPFL	8COTOPFL	9COTOPFL	
4COTOPAT R/M L	4COTOPATL	6COTOPAT R/M L	6COTOPATL	7COTOPATL	8COTOPATL	9COTOPATL	*
4COTOPAI R/M L	4COTOPAIL	6COTOPAI R/M L	6COTOPAIL	7COTOPAIL	8COTOPAIL	9COTOPAIL	
4COTOPAF R/M L	4COTOPAF L	6COTOPAF R/M L	6COTOPAF L	7COTOPAF L	8COTOPAF L	9COTOPAF L	
4COTOPATI R/M L	4COTOPATIL	6COTOPATI R/M L	6COTOPATIL	7COTOPATIL	8COTOPATIL	9COTOPATIL	*
4COTOPATF R/M L	4COTOPATFL	6COTOPATF R/M L	6COTOPATFL	7COTOPATFL	8COTOPATFL	9COTOPATFL	*
4COTOPTI R/M L	4COTOPTIL	6COTOPTI R/M L	6COTOPTIL	7COTOPTIL	8COTOPTIL	9COTOPTIL	*
4COTOPTF R/M L	4COTOPTFL	6COTOPTF R/M L	6COTOPTFL	7COTOPTFL	8COTOPTFL	9COTOPTFL	*
4COTOPIT R/M L	4COTOPITL	6COTOPIT R/M L	6COTOPITL	7COTOPITL	8COTOPITL	9COTOPITL	*
4COTOPTIF R/M L	4COTOPTIFL	6COTOPTIF R/M L	6COTOPTIFL	7COTOPTIFL	8COTOPTIFL	9COTOPTIFL	*
4COTOPAIF R/M L	4COTOPAIFL	6COTOPAIF R/M L	6COTOPAIFL	7COTOPAIFL	8COTOPAIFL	9COTOPAIFL	
4CATIF R/M L	4CATIFL	6CATIF R/M L	6CATIFL	7CATIFL	8CATIFL	9CATIFL	*
4CAT R/M L	4CATL	6CAT R/M L	6CATL	7CATL	8CATL	9CATL	*
4CAI R/M L	4CAIL	6CAI R/M L	6CAIL	7CAIL	8CAIL	9CAIL	
4CAF R/M L	4CAFL	6CAF R/M L	6CAFL	7CAFL	8CAFL	9CAFL	
4CATI R/M L	4CATIL	6CATI R/M L	6CATIL	7CATIL	8CATIL	9CATIL	*
4CATF R/M L	4CATFL	6CATF R/M L	6CATFL	7CATFL	8CATFL	9CATFL	*
4CAIF R/M L	4CAIFL	6CAIF R/M L	6CAIFL	7CAIFL	8CAIFL	9CAIFL	
4CTIF R/M L	4CTIFL	6CTIF R/M L	6CTIFL	7CTIFL	8CTIFL	9CTIFL	*
4CTI R/M L	4CTIL	6CTI R/M L	6CTIL	7CTIL	8CTIL	9CTIL	*
4CTF R/M L	4CTFL	6CTF R/M L	6CTFL	7CTFL	8CTFL	9CTFL	*
4CIF R/M L	4CIFL	6CIF R/M L	6CIFL	7CIFL	8CIFL	9CIFL	
4COTOPATIF R/M L	4COTOPATIFL	6COTOPATIF R/M L	6COTOPATIFL	7COTOPATIFL	8COTOPATIFL	9COTOPATIFL	*

**ELIGIBLE PART NUMBERS for EGT-100-( ) and EGT-200( )**

Note (1) suffix "T" designates EGT-200 ( ) series for twins

Note (2) suffix "\*" denotes for turbocharged engines.

**Part number Series**

A 4 cylinder	B 6 cylinder	C 7 cylinder	D 8 cylinder	E 9 cylinder	TIT
EGT-100-( )	EGT-100-( )	EGT-100-( )	EGT-100-( )	EGT-100-( )	
4	6	7	8	9	
4C	6C	7C	8C	9C	
4C0	6C0	7C0			
4CA	6CA	7CA			
4CT	6CT	7CT			*
4CI	6CI	7CI			
4COA	6COA	7COA			
4COT	6COT	7COT			*
4COI	6COI	7COI			
4COAT	6COAT	7CAT			*
4COAI	6COAI	7CAI			
4COATI	6COATI	7CTI			*
4COIT	6COIT				*
4CAT	6CAT				*
4CAI	6CAI				
4CATI	6CATI				*
4CTI	6CTI				*

Example: see page 5

**Cessna 310 (6T\*)**

6 = any PN in that column except \* items in TIT column

T = Requires two instruments

\* = Includes TIT (turbocharged a/c only)

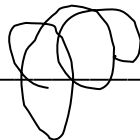
3/20/08

Subject: Permission to use STC.

To Whom It May Concern:

J.P. Instruments holder of STC SA2586NM  
grants to the purchaser of the  
EDM-700 series (PN EGT-701) and the  
Classic Scanner (PN EGT-100)  
permission to use the STC.

Signed

A handwritten signature in black ink, consisting of several overlapping loops and a horizontal line extending to the right.



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

**TRANSPORT AIRPLANE DIRECTORATE  
AIRCRAFT CERTIFICATION SERVICE  
LOS ANGELES AIRCRAFT CERTIFICATION OFFICE  
3229 EAST SPRING STREET  
LONG BEACH, CA 90806-2425**

NOV 10 1992

J P Instruments  
3402-1 West MacArthur  
Santa Ana, California 92704

Gentlemen:

J P Instruments, Temperature Indicator;  
Technical Standard Order C43b

Your application dated August 24, 1992, requesting the issuance of a Technical Standard Order (TSO) authorization in accordance with the procedural requirements of Federal Aviation Regulation (FAR) Part 21, Subpart O, has been reviewed. Based upon your data and statement of conformance certifying your articles have met the requirements of FAR Part 21, Subpart O, and the minimum performance standards of TSO C43b (Ref. FAR 21.305(b)), authorization is hereby granted for the following:

MODEL/PART NO.

DESCRIPTION

EGT-701( )

Exhaust Gas Temperature Indicator

The technical data submitted with your letter, have been accepted as fulfilling the requirements for your TSO authorization and will be retained in our files.

The quality control procedures contained in your quality control manual, currently on file at the Los Angeles Manufacturing Inspection District Office, and your statement that those procedures will be applied to the manufacture of the subject article at the above address, are considered adequate in accordance with FAR 21.143.

Effective this date, you are authorized to use TSO procedures for the subject temperature indicator. You may identify this article with the applicable TSO markings as required by TSO C43b.

As recipient of this TSO authorization, except as provided in FAR 21.3(d), you are required to report any failure, malfunction, or defect in any product or part manufactured by you or your contracted suppliers, and which you have determined has resulted or could result in any of the occurrences listed in FAR 21.3(c). The report should be communicated initially by telephone to the Manager, Technical and Administrative Support Staff,

<b>TSO Compliance</b>	<b>Aeronautical Standard</b>	<b>Scope</b>
TSO-C43b Temperature Instruments	8005	Thermocouple, Class IC

TYPE/MODEL EDM-700/800

TSO NUMBER TSO-C43b

MANUFACTURER: J.P.INSTRUMENS

ADDRESS: 3402-I West Mac Arthur Blvd. Santa Ana CA 92704

REVISION & CHANGE NUMBER OF DO-160C

<b>CONDITIONS</b>	<b>SECTION</b>	<b>DESCRIPTION OF TEST CONDUCTED AND PASSED</b>
Temperature and Altitude	4.0	Equipment tested to Categories B1
Low Temperature	4.5.1	
High Temperature	4.5.2 & 4.5.3	
In-Flight Loss of Cooling	4.5.4	Equipment identified as Category X no test performed.
Altitude	4.6.1	Equipment tested to Categories B1
Decompression	4.6.2	
Overpressure	4.6.3	Equipment tested to note 2
Temperature Variation	5.0	Equipment tested to Category B.
Humidity	6.0	Equipment tested to Category A.
Operational Shock and Crash Safety	7.0	Equipment tested to Category B.
Vibration	8.0	Equipment tested with our shock mounts to Category M,N, and B. Table 8-1
Explosion	9.0	Equipment identified as Category X, no test performed.
Waterproofness	10.0	Equipment identified as Category X, no test performed.
Fluids Susceptibility	11.0	Equipment identified as Category X, no test performed.
Sand and Dust	12.0	Equipment identified as Category X, no test performed.
Fungus	13.0	Equipment tested to Category F.
Salt Spray	14.0	Equipment identified as Category X, no test performed.
Magnetic Effect	15.0	Equipment is Category C
Power Input	16.0	Equipment tested to Categories B.
Voltage Spike	17.0	Equipment tested to Category B
Audio Frequency Susceptibility	18.0	Equipment tested to Category B
Induced Signal Susceptibility	19.0	Equipment tested to Category A
Radio Frequency Susceptibility	20.0	Equipment tested for conducted susceptibility to Category A.
Radio Frequency Emission	21.0	Equipment tested to Category A
Lightning Induced Transient Susceptibility	22.0	Equipment identified as Category X, no test performed.
Lightning Direct Effects	23.0	Equipment identified as Category X, no test performed.
Icing	24.0	Equipment identified as Category X, no test performed.
Other Tests		Fire resistance tests were conducted in accordance with Federal Aviation Regulations Part 25, Appendix F.