

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

Number SA4302NM

This certificate, issued to Electronics International, Inc.

*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 * of the * Regulations.*

Original Product — Type Certificate Number: * *See attached Approved Model List (AML) No.
Make: * SA4302NM for list of approved airplane models
Model: * and applicable airworthiness regulations.

Description of Type Design Change: Installation of Electronics International, Inc. Model SR-8 or Model US-8 Digital Automatic Engine Analyzer (THE SMART SCANNER) in accordance with Electronics International, Inc. Installation Instructions No. II 012881, dated 1/28/88 (for SR-8), or Installation Instructions No. II 072091, dated July 20, 1989 (for US-8), or later FAA approved revisions.

NOTE: The Model SR-8 and Model US-8 listed here are designed as engine analyzers and are not primary instruments.

Limitations and Conditions: Approval of this change in type design applies to the above model aircraft only. This approval should not be extended to other aircraft of this model 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, AML No. SA4302NM, and the above mentioned Installation Instructions must be maintained as part of the permanent records for the modified aircraft.

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: February 25, 1988

Date issued:

Date of issuance: April 21, 1988

Date amended: October 13, 1989

By direction of the Administrator



Stewart K. Miller
(Signature)

Assistant 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 Approved
 Electronics International, Inc.
 Approved Model List (AML) SA4302NM
 for

Installation Of Electronics International Digital Automatic Engine Analyzers

Issue Date: April 21, 1988

| Item | Aircraft Make | Aircraft Model | Original Type Certificate Number | Certification Basis for Alteration | FAA Sealed Drawings | | Installation Instructions | | AML Amend. Date |
|------|--|--|---|---|---------------------|-----------|---------------------------|--------------------|---------------------------|
| | | | | | Number | Rev. No. | Number | Date | |
| | | | | | TD031381 | C 10/6/89 | II012881 II072091 | 1/28/88 7/20/89 | |
| 1. | Aerocar Inc. | I | 4A16 | CAR 3 | " | " | " | " | 10/13/89 |
| 2. | Aerona Inc. (also see trytek) | C-2 Series C-3 Series K&50 Series L Series 15 Series | ATC 351 A 396 688, 676 ATC 596 & 614 A802 | ATC 351 Aero Bul. 7-A 688, 676 ATC 596 & 614 CAR 3 | " | " | " | " | " |
| 3. | Aero-spatiale (Also see Socata) | SE 3160 Alovetter-III SA 315 Series SA 316 Series SA 319 Series 262A Series SN-601 SA-350 & 360 Series SA-365 Series | H1 IN H1 IN H1 IN H1 IN H1 IN A6 EU A37 EU H8 EU H10 EU | CAR 10 CAR 10 CAR 10 CAR 10 CAR 10 CAR 10 FAR 21.29 FAR 21.29 FAR 21.29 | " | " | " | " | 5/11/92 " " |
| 4. | Aircraft Associates Inc. | J-2 | ATC 620 | ATC 620 | " | " | " | " | 10/13/89 |
| 5. | Air Tractor Inc. | AT-300, -300,-302, -400 | A9SW | FAR 21.25 (a)(1) | TD121161 | | | | 5/11/92 |
| 6. | Artic Aircraft Co. | S-1A Series S-1B Series | A737 A754 | CAR 4a CAR 4a | " | " | " | " | 10/13/89 |
| 7. | Ayres Corp. | S-2R S Series 600 Series S2R Series | A3SW A4SW 2A9 2A7 A3SW | CAR 3 CAR 8 CAR 8.10(a)(1) car 8.10(a)(1) CAR 3 | " | " | " | " | 5/11/92 |
| 8. | Ballauer | Funk Series | 2-564 | CAR 04.031 | " | " | " | " | 10/13/89 |
| 9. | Balloon Works, The | Fire Flys | A14S0 | FAR 31 | " | " | " | " | " |

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| | | | | | TD031381 | C 10/6/89 | 11012881 11072091 | 1/28/88 7/20/89 | |
| 21. | Great Lakes | 2T Series | ATC354 ATC-167 2-3339 ATC228 A18EA | ATC354 ATC-167 2-3339 ATC228 FAR 23 | " | " | " | " | 5/11/92 10/13/89 |
| 22. | Gulfstream Aerospace | 111 Series 112 Series 114 Series | 11SO A12SO A12SO | FAR 23 (FAR 36) | " | " | " | " | 5/11/92 |
| 23. | Gulfstream American Commander Division | Grumman: G-164 Series G Series AA Series GA Series 500 Series 111 112Series, 114Series | 1A16 1A17, A12EA A11EA A16EA A17SO 6A1 A11SO A12SO | CAR 8.10 (a)(1) CAR 4b FAR 23 FAR 23 CAR 3 FAR 23 (Far 21) FAR 23 (Far 36) | " | " | " | " | 10/13/89 5/11/92 " |
| 24. | Helio Aircraft LTD (Navion) | H-250 H-295 HT-295 H-391 H-391B H-395 H-395A 500 | 1A8 1A8 1A8 1A8 1A8 1A8 A2EA | CAR 3 CAR 3 CAR 3 CAR 3 CAR 3 CAR 3 CAR 3 CAR 3 | " | " | " | " | 10/13/89 5/11/92 10/13/89 |
| 25. | Hiller Aviation | UH-12 Series | 6H1, 6H2, 4H10, 4H11, H1WE | CAR 6 | " | " | " | " | " |
| 26. | Huges Helicopters | 300 Series 269 Series | 4H12 | CAR Part 6 | " | " | " | " | " |
| 27. | Hynes | H-2, H-4 | 2H2 | CAR Part 6 | " | " | " | " | " |
| 28. | Industrie Aeronautiche E Meccaniche (See Piaggio) | PD 808/526 P.166 Series | A12EU 7A4 | FAR 21.29 CAR 10 | " | " | " | " | 3/05/93 " |
| 29. | Lake | See consolidated Aeronautics | | | | | | | |
| 30. | Maule Aircraft Corp. | M Series | 3A23 | CAR Part 3 | " | " | " | " | " |
| 31. | McDonnell Douglas | DC3 Series DC4 Series | A-807 A-618 | CAR 4 CAR 4 | " | " | " | " | 1/10/91 |
| 32. | Mooney | M20 Series (Mooney) M22 | 2A3 A6SW | CAR 3 CAR 3 | " | " | " | " | 10/13/89 5/11/92 |

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| 39. | Pitts | See Child | | | | | | | |
| 40. | Prop-Jets Inc. (Aero Commander) | 200 Series | 3A18 | CAR 3 CAR 3 CAR 3 | " | " | " | " | 10/13/89 |
| 41. | Reims Aviation (Cessna) | 172Series 150Series 182Series 337Series 177Series | A4EU A18EU A13EU A42EU A23EU A26EU | CAR 10 FAR 21.29 (CAR 3) FAR 21.29 CAR PART 3 FAR 21.29 (FAR 23) FAR PART 23 | " | " | " | " | " |
| 42. | Robinson Helicopter | R 22 | H10WE | FAR 27 | " | " | " | " | " |
| 43. | Rockwell International (Also see Ayres) | 111Series 112Series 114Series 500,520 560,680, 681,690, 695,720 | A12S0 A7S0 6A1 | FAR 23 (FAR 36) FAR 23 CAR 3 | " | " | " | " | 1/10/91 |
| 44. | Rust, Robert F. (Chipmunk) | 21,22 Series | A44EU | FAR 21.29 | " | " | " | " | 10/13/89 |
| 45. | Ryan Aeronautical Co. | SCW-145 ST Series | 658 ATC 571 ATC 681 A-749 | CAR 4a CAR 4a | " | " | " | " | 5/11/92 |
| 46. | Ryan Aircraft Corp. | B Series | ATC 25 | CAR 4a | " | " | " | " | 5/11/92 |
| 47. | Sikorsky Aircraft | H19 Series S-39Series S-41-B S-43Series VS-44-A S-51Series S-52Series S-55Series S-58Series S-61Series S-62A Series S-64Series S-76Series | HR1S0 ATC-375 2-286 A-593 752 H-2 H-3 1H4 1 H11 1 H15 1 H13 H1EA H1NE | FAR 21.25 FAR 21.25 FAR 21.25 Aero Bul-7A CAR 4A CAR 6 CAR 6 CAR 6 CAR 6 CAR 7 CAR 7 CAR 8 FAR 29 | " | " | " | " | 5/11/92 " " |
| 48. | Socata Group Aero-spatiale | 1B9,10,20,21 | A51EU | | " | " | " | " | 1/10/91 |

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| 56. | Univar Aircraft Corp. (Forney) (Erco) (Stinson) (Alon) (Mooney) (Erco) | 108 Series F-1 F-1A E (Mooney) G 415-D A-2 A2-A M10 415-C 415-CD | A-767 A2EA A-787 A-787 A-787 A-787 A-787 A-787 A-787 A-787 A-718 A-718 | CAR 3 CAR 3 CAR 3 CAR 3 CAR 3 CAR 3 CAR 3 CAR 3 CAR 3 CAR 3 CAR 4a CAR 4a | " | " | " | " | 10/13/89 " 5/11/92 10/13/89 |
| 57. | Varga Aircraft Corp. | 2150Series | 4A19 | CAR 3 | " | " | " | " | " |
| 58. | Waco Aircraft | A Series B&C Series D Series E Series G Series I, J, K Series O, P, Q Series R&S Series U, Y, Z Series | ATC26, 644 677 598 714 ATC41 ATC123 ATC168 ATC538 ATC639 ATC597 ATC42 665 2-430 ATC 13 2-363 2-361 ATC 313 ATC468 ATC464 ATC491 ATC453 ATC502 ATC466 ATC311 ATC543 ATC542 ATC586 ATC627 | ATC26 644 677 598 CAR 4a ATC 41 ATC 123 ATC168rt, 04 ATC538 ATC639 ATC597 ATC42 665 2-430 ATC 13 2-363 2-361 ATC 313 ATC468 ATC464 ATC491 ATC453 ATC502 ATC466 ATC311 ATC543 ATC542 ATC586 ATC627 | " | " | " | " | 10/13/89 " 5/11/92 " " 10/13/89 |
| 59. | Weatherly Aviation | 201Series 620Series | A10WE A26WE | FAR 21.25 (a) (CAM8) FAR 21.25 (a) | " | " | " | " | " |