

Department of Transportation Federal Aviation Administration

# Supplemental Type Certificate

*Number* SA02075SE

*This certificate, issued to:*

**Mid-Continent Instrument Company, Inc.  
9400 East 34<sup>th</sup> Street North  
Wichita, KS 67226**

*certifies that the change in the type design for the following product with the limitations and conditions therefore as specified hereon meets the airworthiness requirements of Part \* of the \* Regulations.*

*Original Product—Type Certificate Number:* \* See attached FAA-Approved Model List, Revision "-"  
*Make:* or later FAA-Approved Revisions, for List of Approved Aircraft  
*Model:* Make and Models, and Applicable Airworthiness Regulations.

*Description of the Type Design Change:*

Installation of a Mid-Continent MD835-( ) Lithium Ion Battery in accordance with AeroMech Master Data List, AM0229-DL02-00, specified on the attached FAA-approved Approved Model List (AML) issued September 10, 2010, or later FAA-approved revisions.

*Limitations and Conditions:*

1. This STC is only applicable to aircraft with an existing FAA-approved installation of an L-3 Communications PS-835( ) emergency power supply.
2. The installer must determine whether this design change is compatible with previously approved modifications.
3. Instructions for Continued Airworthiness document AM0229-IC01-00, Revision "—," dated July 27, 2010, or later FAA-accepted revision is a required part of this STC.
4. A copy of the FAA-approved Airplane Flight Manual Supplement (AFMS) document AM0229-FM01-00, Revision Original, dated September 16, 2010, or later FAA-approved revision, is required on board for operation of the modified aircraft.
5. A copy of this certificate and the FAA-approved AML must be maintained as part of the permanent records for the modified aircraft. (See Continuation Sheet on Page 3)

*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:* September 29, 2009      *Date reissued:* September 17, 2010; February 16, 2011  
*Date of issuance:* September 10, 2010      *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.*

# Supplemental Type Certificate

(Continuation Sheet)

*Number* SA02075SE

## **AeroMech Incorporated**

*Issued:* September 10, 2010

*Reissued:* September 17, 2010; February 16, 2011

*Amended:*

### *Limitations and Conditions continued:*

6. 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.
7. Federal Aviation Administration Special Conditions Number 23-247-SC, dated August 09, 2010, is part of the certification basis for this STC.

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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.

This certificate may be transferred in accordance with FAR 21.47.

FAA APPROVED MODEL LIST (AML) NO. SA02075SE

MID-CONTINENT INSTRUMENT CO. INC.

Issue Date: 9/10/2010

Item	Airplane Make	Airplane Model	TCDS Number/Rev	Certification Basis for Alteration	Master Data List		AFMS Rev / Date	Amended Date
					Number	Rev / Date		
1	Aero Vodochody	Ae 270	A58CE Revision 3	14 CFR part 23 amdt 23-59, except for 14 CFR 23.1308. Special Condition 23-247-SC, dated 8/9/2010	AM0229-DL02-00	Revision A*, 2/21/2013	AM0229-FM01-00 Revision A* 2/21/2013	N/A
2	Textron Aviation (Cessna)	441	A28CE	14 CFR part 23 amdt 23-59, except for 14 CFR 23.1308. Special Condition 23-247-SC, dated 8/9/2010	AM0229-DL02-00	Revision A* 2/21/2013	AM0229-FM01-00 Revision A* 2/21/2013	N/A
3	Textron Aviation (Cessna)	401, 402, 411, 414, 421, 425	A7CE	14 CFR part 23 amdt 23-59, except for 14 CFR 23.1308. Special Condition 23-247-SC, dated 8/9/2010	AM0229-DL02-00	Revision A* 2/21/2013	AM0229-FM01-00 Revision A* 2/21/2013	N/A
4	Textron Aviation (Cessna)	501, 551	A27CE Revision 17	14 CFR part 23 amdt 23-59, except for 14 CFR 23.1308. Special Condition 23-247-SC, dated 8/9/2010	AM0229-DL02-00	Revision A* 2/21/2013	AM0229-FM01-00 Revision A* 2/21/2013	N/A
5	Textron Aviation (Cessna)	525, 525A, 525B	A1WI Revision 17	14 CFR part 23 amdt 23-59, except for 14 CFR 23.1308. Special Condition 23-247-SC, dated 8/9/2010	AM0229-DL02-00	Revision A* 2/21/2013	AM0229-FM01-00 Revision A* 2/21/2013	N/A
6	Textron Aviation (Cessna)	510	A00014WI Revision 3	14 CFR part 23 amdt 23-59, except for 14 CFR 23.1308. Special Condition 23-247-SC, dated 8/9/2010	AM0229-DL02-00	Revision A* 2/21/2013	AM0229-FM01-00 Revision A* 2/21/2013	N/A
7	Dornier	228-100/-101/ -200/-201/-202/-212	A16EU	14 CFR part 23 amdt 23-59, except for 14 CFR 23.1308. Special Condition 23-247-SC, dated 8/9/2010	AM0229-DL02-00	Revision A* 2/21/2013	AM0229-FM01-00 Revision A* 2/21/2013	N/A
8	Embraer	EMB-500	A59CE Revision 0	14 CFR part 23 amdt 23-59, except for 14 CFR 23.1308. Special Condition 23-247-SC, dated 8/9/2010	AM0229-DL02-00	Revision A* 2/21/2013	AM0229-FM01-00 Revision A* 2/21/2013	N/A
9	Embraer	EMB-110P1, EMB110P2	A21SO Revision 6	14 CFR part 23 amdt 23-59, except for 14 CFR 23.1308. Special Condition 23-247-SC, dated 8/9/2010	AM0229-DL02-00	Revision A* 2/21/2013	AM0229-FM01-00 Revision A* 2/21/2013	N/A
10	Textron Aviation (Beechcraft)	C90, C90A, C90GT, B90, E90, H90, C90GTi	3A20 Revision 69	14 CFR part 23 amdt 23-59, except for 14 CFR 23.1308. Special Condition 23-247-SC, dated 8/9/2010	AM0229-DL02-00	Revision A* 2/21/2013	AM0229-FM01-00 Revision A* 2/21/2013	N/A
11	Textron Aviation (Beechcraft)	200, 200C, 200CT, 200T, B200, B200C, B200CT, B200GT, B200CGT, B200T, 300, 300LW, B300, B300C, 1900C, 1900D	A24CE Revision 98	14 CFR part 23 amdt 23-59, except for 14 CFR 23.1308. Special Condition 23-247-SC, dated 8/9/2010	AM0229-DL02-00	Revision A* 2/21/2013	AM0229-FM01-00 Revision A* 2/21/2013	N/A
12	Textron Aviation (Beechcraft)	99, 99A, A99, A99A, B99, C99	A14CE Revision 37	14 CFR part 23 amdt 23-59, except for 14 CFR 23.1308. Special Condition 23-247-SC, dated 8/9/2010	AM0229-DL02-00	Revision A* 2/21/2013	AM0229-FM01-00 Revision A* 2/21/2013	N/A

FAA APPROVED MODEL LIST (AML) NO. SA02075SE

MID-CONTINENT INSTRUMENT CO. INC.

Issue Date: 9/10/2010

Item	Airplane Make	Airplane Model	TCDS Number/Rev	Certification Basis for Alteration	Master Data List		AFMS Rev / Date	Amended Date
					Number	Rev / Date		
13	Textron Aviation (Beechcraft)	390	A00010W1 Revision 8	14 CFR part 23 amdt 23-59, except for 14 CFR 23.1308. Special Condition 23-247-SC, dated 8/9/2010	AM0229-DL02-00	Revision A* 2/21/2013	AM0229-FM01-00 Revision A* 2/21/2013	N/A
14	Learjet	23	A5CE Revision 10	14 CFR part 23 amdt 23-59, except for 14 CFR 23.1308. Special Condition 23-247-SC, dated 8/9/2010	AM0229-DL02-00	Revision A* 2/21/2013	AM0229-FM01-00 Revision A* 2/21/2013	N/A
15	rv17 Aerospace	SA226-T, SA226-AT, SA227-AT, SA227-TT	A5SW Revision 26	14 CFR part 23 amdt 23-59, except for 14 CFR 23.1308. Special Condition 23-247-SC, dated 8/9/2010	AM0229-DL02-00	Revision A* 2/21/2013	AM0229-FM01-00 Revision A* 2/21/2013	N/A
16	Pacific Aerospace	750XL	A50CE Revision 3	14 CFR part 23 amdt 23-59, except for 14 CFR 23.1308. Special Condition 23-247-SC, dated 8/9/2010	AM0229-DL02-00	Revision A* 2/21/2013	AM0229-FM01-00 Revision A* 2/21/2013	N/A
17	Piaggio	P-180	A59EU Revision 18	14 CFR part 23 amdt 23-59, except for 14 CFR 23.1308. Special Condition 23-247-SC, dated 8/9/2010	AM0229-DL02-00	Revision A* 2/21/2013	AM0229-FM01-00 Revision A* 2/21/2013	N/A
18	Pilatus	PC-12	A78EU Revision 19	14 CFR part 23 amdt 23-59, except for 14 CFR 23.1308. Special Condition 23-247-SC, dated 8/9/2010	AM0229-DL02-00	Revision A* 2/21/2013	AM0229-FM01-00 Revision A* 2/21/2013	N/A
19	Socata	TBM 700	A60EU Revision 18	14 CFR part 23 amdt 23-59, except for 14 CFR 23.1308. Special Condition 23-247-SC, dated 8/9/2010	AM0229-DL02-00	Revision A* 2/21/2013	AM0229-FM01-00 Revision A* 2/21/2013	N/A
20	Twin Commander	680, 680E, 680F, 680FL, 680T, 680V, 680W, 681, 690, 690A, 690B, 690C, 690D, 695, 695A, 695B	2A4 Revision 47	14 CFR part 23 amdt 23-59, except for 14 CFR 23.1308. Special Condition 23-247-SC, dated 8/9/2010	AM0229-DL02-00	Revision A* 2/21/2013	AM0229-FM01-00 Revision A* 2/21/2013	N/A
21	Viking Air	DHC-6-1/-100/-200/-300	A9EA Revision 13	14 CFR part 23 amdt 23-59, except for 14 CFR 23.1308. Special Condition 23-247-SC, dated 8/9/2010	AM0229-DL02-00	Revision A* 2/21/2013	AM0229-FM01-00 Revision A* 2/21/2013	N/A
22	Pilatus	PC-12/45, PC-12/47 PC-12/47E	A78EU Revision 21	14 CFR part 23 amdt 23-59, except for 14 CFR 23.1308. Special Condition 23-247-SC, dated 8/9/2010	AM0229-DL02-00	Revision A* 2/21/2013	AM0229-FM01-00 Revision A* 2/21/2013	2/28/2013
23	Piper	PA-31T, PA-31T1 PA31T2, PA-31T3	A8EA Revision 24	14 CFR part 23 amdt 23-59, except for 14 CFR 23.1308. Special Condition 23-247-SC, dated 8/9/2010	AM0229-DL02-00	Revision A* 2/21/2013	AM0229-FM01-00 Revision A* 2/21/2013	2/28/2013
24	Piper	PA-42, PA-42-720, PA-42-1000	A23SO Revision 20	14 CFR part 23 amdt 23-59, except for 14 CFR 23.1308. Special Condition 23-247-SC, dated 8/9/2010	AM0229-DL02-00	Revision A* 2/21/2013	AM0229-FM01-00 Revision A* 2/21/2013	2/28/2013

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MID-CONTINENT INSTRUMENT CO. INC.

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					Number	Rev / Date		
25	Piper	PA-42-720R	A32SO Revision 2	14 CFR part 23 amdt 23-59, except for 14 CFR 23.1308. Special Condition 23-247-SC, dated 8/9/2010	AM0229-DL02-00	Revision A* 2/21/2013	AM0229-FM01-00 Revision A* 2/21/2013	9/28/2013
26	Textron Aviation (Beechcraft)	A200, A200CT	A24CE Revision 123	14 CFR part 23 amdt 23-59, except for 14 CFR 23.1308. Special Condition 23-247-SC, dated 8/9/2010	AM0229-DL02-00	Revision A* 2/21/2013	AM0229-FM01-00 Revision A* 2/21/2013	9/29/2020
27	Textron Aviation Defense LLC	3000	A00009W1 Revision 25	14 CFR part 23 amdt 23-59, except for 14 CFR 23.1308. Special Condition 23-247-SC, dated 8/9/2010	AM0229-DL02-00	Revision A* 2/21/2013	AM0229-FM01-00 Revision A* 2/21/2013	3/4/2021

\* or later FAA Approved revision

FAA Approved: \_\_\_\_\_  
Program Manager, Wichita ACO Branch

Date Reissued: 2/16/2010  
Date Amended: 2/28/2013, 9/29/2020, 3/4/2021