

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

Number SA454GL

This certificate issued to Shadin Avionics
6831 Oxford Street
St. Louis Park, MN 55426

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 Air Regulations.
(See Type Certificate Data Sheet A20S0 for complete certification basis.)

Original Product -- Type Certificate Number : A20S0
Make : Piper Aircraft, Inc.
Model : PA-31, PA-31-350, PA-31-325

Description of Type Design Change:

Installation of a Shadin Company Fuel Flow Indicating System in accordance with Shadin Company Report number 4018, revised June 1, 1986, or other FAA approved version.

Limitations and Conditions:

- 1) The approval of this change in type design applies to the above airplanes which are otherwise unmodified.
- 2) This approval should not be extended to other airplanes of these models that incorporate any other previously approved modification, unless it is determined that the interrelationship between this change and any other previously approved modification will introduce no adverse effect on the airworthiness of these airplanes.
- 3) 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 : June 24, 1980

Date reissued : June 8, 2006

Date of issuance : September 29, 1980

Date amended : June 11, 1983, October 22, 1986



By direction of the Administrator

(Signature)

Charles L. Smalley
Manager, Systems & Flight Test Branch
Chicago Aircraft Certification Office

(Title)