

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

Number SA157NE

This certificate, issued to Insight Instrument Corporation
Box 194, Ellicott Station
Buffalo, New York 14205-0194

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 3/23 of the Civil Air Federal Aviation Regulations.

Original Product — Type Certificate Number: See Master Eligibility List

Make:

See STC Continuation Sheet, Page 3

Model:

Description of Type Design Change:

1. Installation of Graphic Engine Monitor (G.E.M.) System Model GEM-602 S/N 403 and subsequent in accordance with Insight Instrument Corporation (I.I.C.) Manual "Installing the G.E.M." dated September 1, 1982.
2. GEM-603, S/N 001126 and subsequent installed in accordance with I.I.C. Manual "Installing the G.E.M.", Drawing 8258, version 2.2 dated 4/15/94.
3. Installation of GEM-602 and GEM-603 in accordance with I.I.C. Manual "Installing the G.E.M." Drawing 8258 version 2.2, dated 4/15/94.

Limitations and Conditions:

1. Insight Instrument Corporation Airplane Flight Manual Supplement No. 1, Revision No. 3, FAA approved May 6, 1985, is required with this installation. Beech 33, 35 and 36 series aircraft may also use AFMS No. 1, FAA approved August 30, 1983.
2. This instrument is approved as optional equipment only and shall not replace any other required instrument. (See STC Continuation Sheet, Page 2)

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: March 30, 1983

Date of issuance: June 4, 1983

Date issued:

Date amended: 8/30/83, 10/13/83, 6/14/85, 1/29/88,
10/31/89, 10/18/96

By direction of the Administrator

P. Perotta (for)

Anthony Socias (Signature)
Manager, Airframe and Propulsion Branch
New York 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.



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Date amended: October 18, 1996

Limitations and Conditions: (continued)

3. Each aircraft installation shall be ground and flight checked, and calibrated in accordance with the requirements given on pages 4 and 5 of the I.I.C. "Installing the Graphic Engine Monitor" manual Drawing 8258 version 2.1.

4. This approval should not be incorporated in any aircraft of these specific models on which other approved modifications are incorporated, unless it is determined that the interrelationship between this change and any of those previously incorporated approved modifications will not introduce any adverse effect upon the airworthiness of the aircraft.

(See the following STC Continuations Sheets for Master Eligibility List)

. . . END . . .

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Master Eligibility List

Insight Instrument Corporation Model 602 and Model 603 Graphic Engine Temperature Indicators:

Graphic Engine Monitor System Installation

<u>Make</u>	<u>Model</u>	<u>Type Certificate</u>
British Aerospace (Beagle)	206 - all	A11EU
Beechcraft	23 - all	A1CE
Beechcraft	24 - all	A1CE
Beechcraft	33 - all	3A15
Beechcraft	35 - all	777/3A15
Beechcraft	36 - all	3A15
Beechcraft	45 - all	5A3
Bellanca	17-30/31-all	1A3/A18CE
Bellanca	19-2/3-all	1A3
Bellanca	14-13-all	773
Bellanca	14-19-all	1A3
Britten Norman	BN-2A	A29EU
Cessna	150, 152-all	3A19
Cessna	170 - all	799
Cessna	172 - all	3A12
Cessna	175 - all	3A17
Cessna	177 - 177A-B	A13CE
Cessna	177RG	A20CE
Cessna	180 - all	5A6
Cessna	182 - all	3A13
Cessna	185 - all	A9CE/3A24
Cessna	205 - all	3A21
Cessna	206 - all	A4CE
Cessna	207 - all	A16CE
Cessna	210 - all	3A21
Cessna	T303 - all	3A21
Globe Swift	GC-1A, -1B	A766 (Swift Museum Foundation, Inc.)
Gulfstream Aerospace	AA-5B	A16EA

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