

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 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 issued:

Date of issuance: June 4, 1983

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



J. 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.

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

Number SA157NE

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 . . .

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 SA157NE

Date amended: October 18, 1996

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

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 SA157NE

Date amended: October 18, 1996

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>
Helio	H-295	1A8
Consolidated Aeronautics (Lake)	LA-4-all	1A13
Maule	M-4 - all	3A23
Maule	M-5 - all	3A23
Maule	M-6 - all	3A23
Maule	M-7 - all	3A23
Maule	MX7 - all	3A23
Mooney	M-20 - all	2A3
Mooney	M-20 - all	A6SW
Thompson	Navion - all	782
Rockwell	112 - all	A12SO
Rockwell	114 - all	A12SO
Beechcraft	50 - all	5A4
Beechcraft	55 - all	3A16
Beechcraft	56TC	3A16
Beechcraft	58 - all	3A16
Beechcraft	58P	A23CE
Beechcraft	60 - all	A12CE
Beechcraft	65 - all	3A20
Beechcraft	76 - all	A29CE
Beechcraft	95 - all	3A16

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 SA157NE

Date amended: October 18, 1996

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>
Cessna	310 - all	3A10
Cessna	320 - all	3A25
Cessna	336 - all	A2CE
Cessna	337 - all	A6CE
Cessna	340 - all	3A25
Cessna	401 - all	A7CE
Cessna	402 - all	A7CE
Cessna	404 - all	A25CE
Cessna	411 - all	A7CE
Cessna	414 - all	A7CE
Cessna	421 - all	A7CE
Cessna	425 - all	A7CE
Partenavia	P68C	A31EU
Piper	PA-18 - all	1A2
Piper	PA-23 - all	1A10
Piper	PA-24 - all	1A15
Piper	PA-28 - all	2A13
Piper	PA-30 - all	A1EA
Piper	PA-31 - all	A8EA
Piper	PA-32 - all	A3SO
Piper	PA-34 - all	1E10
Piper	PA-39 - all	A1EA
Piper	PA-44 - all	A23SO
Piper	PA-46 - all	A25SO
Piper	PA-60 - all	A17WE
Pitts	S1 - all	A8SO
Pitts	S2 - all	A8SO

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 SA157NE
Date amended: October 18, 1996

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>
Rockwell	500 - all	2A4
Rockwell	560 - all	2A4
Rockwell	680 - all	2A4
Republic	RC-3	A-769
STOL Aircraft	UC-1	A6EA
SIAI-Marchetti	F260 - all	A10EU
Composite Aircraft (Windecker)	AC-7	A7SW
Gulfstream American (Grumman)	GA-7	A17SO
S.O.C.A.T.A. (Groupe Aerospatiale)	TB-10 TB-20 TB-21	A51EU
S.O.C.A.T.A. (Groupe Aerospatiale)	MS880B MS885 MS892A MS892E MS893A MS893E MS894A MS894E Rallye 100S Rallye 150T Rallye 150ST Rallye 235E	7A14
REVO, Inc. (Consolidated Aeronautics)	Lake Model 250	1A13

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