



Lufttüchtigkeitsanweisung (LTA) Consigne de Navigabilité (CN) Direttive sulla Navigabilità (DN) Airworthiness Directive (AD)		FOCA AD HB-2012-002
Inkraftsetzung Mise en vigueur Entrata in vigore Effective Date	17 July 2012	Pilatus – PC-21 FOCA TC/TCDS No: F 56-35

Issue Date: 10 July 2012

ATA Chapter: ATA 31 – Indicating/Recording Systems

Subject: **Indicating/Recording Systems – Suspected Unreliable Airspeed –
Airplane Flight Manual (AFM) Temporary Revision (TR)**

**Supersedure / Revised
AD(s):** Not applicable

**Type Certificate
Holder’s Name:** Pilatus Aircraft Ltd.

Manufacturer(s): Pilatus Aircraft Ltd.

Applicability: Model PC-21 aircraft, Manufacturer Serial Numbers (MSN) 101 through
MSN 154 inclusive.

Reason: This Airworthiness Directive (AD) is prompted due to occurrences during
flight where false Indicated Air Speed (IAS) were reported. The most
probable cause for wrong IAS is related to obstruction of the pitot line
caused by significant quantities of water, which becomes ice when the
aircraft operates in low ambient temperatures. The ingress of water is
believed to occur in heavy rain and/or during washing of the aircraft.

This condition, if not corrected, could result in a false IAS indication which
also effects the operation of the Trim Aid Device (TAD), the Power Man-
agement System (PMS) and the Secondary Flight Display’s (SFD) Attitude
and IAS. Further this condition could cause an incorrect over speed warn-
ing and unreliable Angle of Attack (AOA) indication if indicated Mach is
> 0.41. All the above constitutes an unsafe condition, particularly for air-
crew unaware of the full effects (defined above) of a false IAS indication.

As an interim measure, FOCA AD HB-2012-002 requires the introduction
of new Emergency Procedures for suspected unreliable airspeed by in-
serting a new Temporary Revision into the AFM.

As a terminating action, Pilatus PC-21 Service Bulletin No. 34-005 will be
required to be implemented.

**Required Action(s)
and Compliance
Time(s):** Required as indicated below, unless already accomplished:

- (1) Before next flight, after the effective date of this AD, insert Tempo-
rary Revision: 15-TR-83, Document: 21-B-15-00-00-69A-010A-A,
into the AFM in front of Aircrew Information – General – List of Tem-
porary Revisions (LOTR).

Lufttüchtigkeitsanweisung (LTA)
Consigne de Navigabilité (CN)
Direttive sulla Navigabilità (DN)
Airworthiness Directive (AD)

FOCA AD
HB-2012-002

- (2) Before 31 December 2012, modify the aircraft according to Pilatus PC-21 Service Bulletin No. 34-005.

Ref. Publication(s): PILATUS PC-21 Temporary Revision: 15-TR-83, Document: 21-B-15-00-00-69A-010A-A, initial issue, dated 22 June 2012.

PILATUS PC-21 Service Bulletin No. 34-005, to be issued in the near future.

The use of later approved revisions of these documents is acceptable for compliance with the requirements of this AD.

For further information contact: The applicable manufacturer's documentation may be obtained directly from:

PILATUS AIRCRAFT LTD.
Customer Technical Support (MCC)
P.O. Box 992
CH-6371 Stans, Switzerland

Tel.: +41 (0)41 619 67 74 Fax: +41 (0)41 619 67 73
E-mail: Techsupport@pilatus-aircraft.com

For further information contact:

FEDERAL OFFICE OF CIVIL AVIATION (FOCA)
Design and Production (STEH)
CH-3003 Bern, Switzerland

Fax: +41 (0) 31 322 59 18
E-mail: airdir@bazl.admin.ch