


EASA	AIRWORTHINESS DIRECTIVE	
	<p>AD No.: 2011-0021</p> <p>Date: 07 February 2011</p> <p>Note: This Airworthiness Directive (AD) is issued by EASA, acting in accordance with Regulation (EC) No 216/2008 on behalf of the European Community, its Member States and of the European third countries that participate in the activities of EASA under Article 66 of that Regulation.</p>	
<p>This AD is issued in accordance with EC 1702/2003, Part 21A.3B. In accordance with EC 2042/2003 Annex I, Part M.A.301, the continuing airworthiness of an aircraft shall be ensured by accomplishing any applicable ADs. Consequently, no person may operate an aircraft to which an AD applies, except in accordance with the requirements of that AD unless otherwise specified by the Agency [EC 2042/2003 Annex I, Part M.A.303] or agreed with the Authority of the State of Registry [EC 216/2008, Article 14(4) exemption].</p>		
<p>Type Approval Holder's Name : AQUILA Aviation by Excellence AG</p>	<p>Type/Model designation(s) : AT01 aeroplanes</p>	
<p>TCDS Number : EASA.A.527</p>		
<p>Foreign AD : Not Applicable</p>		
<p>Supersedure : None</p>		
ATA 28	Fuel Quantity Indication System –Operational Limitation / Modification	
<p>Manufacturer(s):</p>	<p>AQUILA Aviation by Excellence AG</p>	
<p>Applicability:</p>	<p>Model AT01, serial numbers AT01-100 up to AT01-222</p>	
<p>Reason:</p>	<p>A significant discrepancy between the indicated fuel level and the actual fuel level has been observed during fuelling of a new AT01 aeroplane with AVGAS 100LL after basic calibration with MOGAS. The indicated fuel amount was lower than the actual amount in the wing tanks.</p> <p>Subsequent investigation revealed that, in the opposite case, fuelling with MOGAS after basic calibration with AVGAS 100LL, the indicated fuel amount is higher than the actual fuel amount in the wing tanks.</p> <p>This condition, if not detected and corrected, can cause an in-flight engine shut down, possibly resulting in damage to the aeroplane and injury to occupants.</p> <p>The TC holder has addressed this issue by Service Bulletin SB-AT01-020.</p> <p>For the reasons mentioned above, this AD requires the actions as described in the SB-AT01-020:</p> <ul style="list-style-type: none"> - establish safe operating procedures as an interim solution; - establish a correct calibration procedure for the fuel quantity indication system, and - require calibration in accordance with correct procedure as a terminating action. 	
<p>Effective Date:</p>	<p>21 February 2011</p>	

<p>Required action(s) and Compliance Time(s):</p>	<p>Required as indicated, unless already accomplished:</p> <ol style="list-style-type: none"> (1) Within 14 days after the effective date of this AD, incorporate a temporary revision to the Flight Manual and install a placard, in accordance with Aquila Service Bulletin SB-AT01-020. (2) Within 2 months after the effective date of this AD perform a calibration of the fuel quantity indication system in accordance with Maintenance Manual MM-AT01-1020-100, Revision 19. (3) After the accomplishment of the initial calibration as required by paragraph (2) of this AD, remove the temporary revision from the Flight Manual and remove the placard from the aeroplane.
<p>Ref. Publications:</p>	<p>Aquila Service Bulletin SB-AT01-020, Issue 1, dated 29 November 2010; Maintenance Manual MM-AT01-1020-100 Revision 19, dated 25 November 2010.</p> <p>The use of later approved revisions of these documents is acceptable for compliance with the requirements of this AD.</p>
<p>Remarks :</p>	<ol style="list-style-type: none"> 1. If requested and appropriately substantiated, EASA can approve Alternative Methods of Compliance for this AD. 2. The required actions and the risk allowance have granted the issuance of a Final AD with Request for Comments, postponing the public consultation process after publication. 3. Enquiries regarding this AD should be referred to the Airworthiness Directives, Safety Management & Research Section, Certification Directorate, EASA. E-mail ADs@easa.europa.eu. 4. For any question concerning the technical content of the requirements in this AD, please contact: AQUILA Aviation by Excellence AG, Flugplatz, 14959 Schonhagen, Germany