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FAI AEROMODELLING COMMISSION (CIAM) ELECTRONIC DEVICES IN COMPETITIONS WORKING GROUP (EDIC-WG)

References:

FAI web site: www.fai.org
CIAM website: www.fai.org/commission/ciam

Reporting year 2023

This report is compiled to summarise work and activities in EDIC working group. It is accompanied with a detailed Excel table showing daily activities.

Update EDIC volume

Added/updated sections:

Paragraph	Date of Publication	Brief description of change	Change incorporated by
Section 3	January 2023	2.2b alternate negative battery lead 2.2d alternate post motor stop control strategy 2.3.1 new voltage, current, temperature limits for 2% accuracy 2.4d add accumulation start with currents > 5A	Ian Keynes F1 subcommittee

Support F1 subcommittee on rules for devices for F1QEL

Investigations for influences of magnetic fields, rules for testing.

Update for testing rules with real loads. Found higher differences in energy accumulation from different ESC with motor load. Adjusted rules do a more closer voltage operation window.

Negotiations with SM (Unlog2) for changes to get approved.

MS limiter had problems with jitter on output, approval withdrawn. Update approved.

Summary of evaluation work on AMRT devices for F5J

Work on new devices from Gliderkeeper.

Support F3G subcommittee on rules for LOG-LIM devices for F3G

Support Harald Vieweger (EDIC member) to establish test procedures and support testing Aerobtec Altis V4+ device with power sensor for current and AR box.

Various Zoom meetings to define testable requirements and procedures.

Approvals and updates for devices this year

Class	Device name	supplier	versions
F1QEL	MS limiter	Mikko Sivonen	1.16
F1QALT	MiniNeurone	Flying Neurons	1.2
F3EEL	PD Limiter	Fiori Metaal BV	2.03
F3G	Altis V4+ Power Sensor ARBox	Aerobtec	2.8 1.1 0.4
F5B	ATT + GSdT	Neu Electronics	3.09
F5J	Gliderkeeper M309	Gliderkeeper	F1.26, S1.26
	Multi3	RC Electronics	F4.06, S4.06

Updates on templates and automated test documents to help manufacturers test and make reliable, accurate products.

Thanks to the EDIC members Sotir, Allard, Tjarko, Massimo, Trevor, Steve, Harald, Ralf with approval of devices and establish testing rules.

Ing Manfred Lex
Chairman FAI CIAM EDIC Working Group

List of EDIC members

issued by: Chairman CIAM EDIC Working Group

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	Date joined	Name	email	phone	classes	CIAM subcommittee
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