REPUBLIC OF BULGARIA
Executive agency
Bulgarian accreditation service

Signatory to the EA Multilateral Agreement in this field

ORDER

№ A 210

Sofia, 06.07.2026

Pursuant to Art. 10, para. 1, item 4, Art. 28, para. 1 of the Law on National Accreditation of Conformity Assessment Bodies, item 6 of the BAS QR 2 Accreditation Procedure, in connection with an open procedure reg. № 492/294 ЛИ/ПА/13.01.2026, assessment report reg. № 492/294 ЛИ/5/В/18.03.2026, and statement of the Accreditation Commission reg. № 492/294 ЛИ/6/В/18.06.2026, I hereby

RE-ACCREDIT

RESEARCH AND DEVELOPMENT AND INNOVATION CONSORTIUM LABORATORY INTELLIGENT COMMUNICATION INFRASTRUCTURES

Management and Laboratory address:
1784, Sofia, Mladost, 111 Г Tsarigradsko Shose Blvd,
Sofia Tech Park, Laboratory Complex Building

To perform testing of:

Type of the scope: *fixed*			
№	**Tested products**	**Type of test / characteristic**	**Testing methods (standard / validated method)**
1	2	3	4
1.	Balise	1. Up-link field conformity	
		1.1 Up-link field conformity in the main lobe zone	UNISIG SUBSET-085 v4.0.0, p. 4.2.2 EBL-001
		1.2 Up-link field conformity in the side lobe zone	UNISIG SUBSET-085 v4.0.0, p. 4.2.2 EBL-002
		1.3 Up-link field conformity in cross-talk protected zone	UNISIG SUBSET-085 v4.0.0, p. 4.2.2 EBL-003
		2. Tele-powering field conformity	
		2.1 Tele-powering conformity in the main lobe zone	UNISIG SUBSET-085 V4.0.0, p. 4.2.3 EBL-004
		2.2 Tele-powering conformity in the side lobe zone	UNISIG SUBSET-085 V4.0.0, p. 4.2.3 EBL-005
		3. Input / output characteristics	UNISIG SUBSET-085 V4.0.0, p. 4.2.4 EBL-007
		4. Cross-talk immunity	
		4.1 Cross-talk measurements	UNISIG SUBSET-085 V4.0.0, p. 4.2.5 EBL-008

Type of the scope: *fixed*			
№	**Tested products**	**Type of test / characteristic**	**Testing methods (standard / validated method)**
1	2	3	4
		4.2 LZB cable testing	UNISIG SUBSET-085 V4.0.0, p. 4.2.5 EBL-009
		5. Balise impedance	UNISIG SUBSET-085 V4.0.0, p. 4.2.6 EBL-010
		6. Up-link signal characteristics	
		6.1 Centre frequency and frequency deviation	UNISIG SUBSET-085 V4.0.0, p. 4.2.7 EBL-011
		6.2 Start-up after side lobe	UNISIG SUBSET-085 V4.0.0, p. 4.2.7 EBL-012
		6.3 Mean data rate	UNISIG SUBSET-085 V4.0.0, p. 4.2.7 EBL-013
		6.4 Maximum time interval error	UNISIG SUBSET-085 V4.0.0, p. 4.2.7 EBL-014
		6.5 Amplitude jitter during start-up ramp	UNISIG SUBSET-085 V4.0.0, p. 4.2.7 EBL-015
		6.6 Amplitude jitter during steady state flux	UNISIG SUBSET-085 V4.0.0, p. 4.2.7 EBL-016
		6.7 Signal bandwidth	UNISIG SUBSET-085 V4.0.0, p. 4.2.7 EBL-017
		6.8 Delay time and balise controlling interface parameter variation	UNISIG SUBSET-085 V4.0.0, p. 4.2.7 EBL-018
		6.9 Test of compatibility	UNISIG SUBSET-085 V4.0.0, p. 4.2.7 EBL-019
		6.10 Balise start with toggling AM and steep tele-powering slope	UNISIG SUBSET-085 V4.0.0, p. 4.2.7 EBL-020
		7. Balise controlling interface performance measurements	
		7.1 Interface 'C' – electrical data versus signal level	UNISIG SUBSET-085 V4.0.0, p. 4.2.8 EBL-021
		7.2 Interface 'C' – electrical data versus mean data rate	UNISIG SUBSET-085 V4.0.0, p. 4.2.8 EBL-022
		7.3 Interface 'C' – electrical data versus jitter properties	UNISIG SUBSET-085 V4.0.0, p. 4.2.8 EBL-023
		7.4 Interface 'C' – balise testing under various return loss conditions	UNISIG SUBSET-085 V4.0.0, p. 4.2.8 EBL-024
		7.5 Interface 'C' – blocking of up-link telegram switching	UNISIG SUBSET-085 V4.0.0, p. 4.2.8 EBL-025

Type of the scope: *fixed*			
№	**Tested products**	**Type of test / characteristic**	**Testing methods (standard / validated method)**
1	2	3	4
		7.6 Interface 'C' – default telegram switching	UNISIG SUBSET-085 V4.0.0, p. 4.2.8 EBL-026
		8. Test for damaging	UNISIG SUBSET-085 V4.0.0, p. 4.2.9 EBL-027

Reference:
UNISIG SUBSET-085 Test specification for Eurobalise, version 4.0.0 dated 05.07.2023.

I ORDER

To issue the certificate of accreditation reg. № 294 ЛИ/06.07.2026, valid until 05.07.2030, and this order as an integral part of it.

The certificate of accreditation with the enclosure to be received by the manager/ representative of the Research and Development and Innovation Consortium, Sofia, Laboratory Intelligent Communication infrastructures at Research and Development and Innovation Consortium, Sofia or other authorized person in the office of EA BAS.

Upon receipt of the certificate and the enclosure issued, the accredited person is obliged to return to EA BAS the originals of accreditation certificate № 294 ЛИ/05.07.2022, valid until 05.07.2026 and its enclosure, EA BAS order reg. № А 416/05.07.2022.

This order shall be notified to the Research and Development and Innovation Consortium, Sofia within 3 (three) days from its issuance.

Eng. Mariya Ilieva - Yordanova

Executive Director
of Executive Agency Bulgarian Accreditation Service