



Fax: +91-522-2452332, Tel:+91-522-2465748  
Email: [dsig6@rdsolrailnet.gov.in](mailto:dsig6@rdsolrailnet.gov.in)



भारत सरकार-रेल मंत्रालय  
Government of India - Ministry of Railways  
अनुसंधान अभिकल्प और मानक संगठन  
Research Designs & Standards Organisation  
लखनऊ-226011  
LUCKNOW - 226011

No. STS/E/Foffis/ UFSBI Deltron

Dated: 30.11.2012

**MAINTENANCE TYPE APPROVAL CERTIFICATE**

1.	Description of product	Universal Fail Safe Block Interface ( UFSBI ) to RDSO Specification No. RDSO/SPN/147/2005 with amndt-1 as per part- list in Annexure I .
2.	Name of the Manufacturer	M/s Deltron Equipment & Systems Pvt Limited,
3.	Address (Head Office)	26 Convent Road, Kolkata – 700 014
4.	Address (Works)	17, Canal Street, Kolkata – 700 014
5.	Telephone No.	Office: 033 – 2265 1778, 033 – 2265 5903 Works/Factory: 033 – 2217 6467
6.	Fax No.	Office. : 033 – 2265 5903
7.	E mail address	<a href="mailto:sales@des-india.com">sales@des-india.com</a>
8.	Type	“Universal Fail Safe Block Interface” ( UFSBI )
9.	Tested by	RDSO/LKO
10.	Tested to Specn. No./RDSO Drg No.	RDSO/SPN/147/2005 with amendment-1.
11.	Critical Raw Material/Component used	Nil
12.	Type Approval Valid up to:	31.08.2015
13.	Status	Part - I

This type approval to the firm is for supply of the product as mentioned above with the following terms & conditions:

1. The UFSBI shall work with single line Daido handle type tokenless block instrument, single line Neal's tokenless block instrument, double line SGE block instrument, Block Proving by Axle Counter (BPAC) and Failsafe Multiplexer for 16 I/O.
2. No modification without necessary permission/approval from RDSO is permitted in design (Hardware/Software), process, raw material/components, engineering and/or facilities in the approved model subsequent to the issue of this certificate. Any modification in the product shall lead to the cancellation of type approval.
3. During the validity of approval, RDSO reserves the right to inspect this product at any premises where it is in use or at the place of manufacturer. If any deterioration of performance of the approved product is noticed during use, RDSO reserves the right to cancel the approval.

4. In case of any dispute at any stage during the validity of this approval, verdict of the competent authority of RDSO shall be final and binding on the manufacturer.
5. It shall be the responsibility of firm to send samples for renewal of type approval at least 6 months in advance before the expiry of the validity and no notice shall be issued to the firm.
6. The equipment has to be installed / commissioned by the manufacturer or the personnel certified by the manufacturer as trained for installation & commissioning of this equipment.
7. The software checksum of Universal fail safe Block Interface (UFSBI) of M/s Deltron make is 'B7 0E'.
8. Hardware version is as per Part List given in Annexure-1.



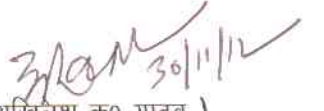
( अखिलेश कु० यादव )  
निदेशक / सिगनल  
कृते महा निदेशक / सिगनल

Copy to:

1. **The General Manager/S&T,  
The General Manager/S&T/(Const)., &  
The General Manager (Stores):**  
Central Rly., Mumbai, CST - 400001  
Western Rly, Churchgate, Mumbai - 400020  
Eastern Rly., Fairlie Place, Kolkata 700001  
South Eastern Rly., Garden Reach, Kolkata - 700043  
Northern Rly. Baroda House, New Delhi- 110001  
North Eastern Rly., Gorakhpur- 273012  
North East Frontier Rly., Maligaon, Guwahati - 781011  
Southern Rly. Park Town, Chennai - 600003  
South Central Rly., Secunderabad – 500371  
East Central Railway, Hajipur.  
East Coast Railway, Rail Vihar BDA Rental Colony, Chandrasekharpur,  
Bhubneshwar - 751023  
North Central Railway, "Ganga" Complex, Subedarganj, Allahabad-211033.  
North Western Railway, Jaipur – 300206  
South Western Railway, New Zonal Head Qtr. Office, 1st Floor, West Block,  
Gadag Road, Hubli- 580 020  
West Central Railway, 1st Floor, Annex Building-II, Plat Form No. 4, Jabalpur-  
482 001  
South East Central Railway, R.E. Office Complex, Bilaspur - 495004
2. Secretary/Signal, Railway Board, Rail Bhawan, New Delhi
3. Secretary (Stores), Railway Board, Rail Bhawan, New Delhi.
4. Secretary/S&T (RE), Railway Board, Rail Bhawan, New Delhi.
5. The General Manager/S&T, Metro Railway, 23-A, Jawaharlal Nehru Road,  
Kolkata – 700071



6. The General Manager/S&T, CORE, Nawab Yusuf Road, Civil Lines, Allahabad-211 001
7. The General Manager, Konkan Railway Corpn. Ltd.; Belapur Bhavan, Sector-II, CBD, Belapur, New Mumbai – 400614.
8. The General Manager/S&T, IRCON, Palika Bhavan, Sector XIII, R.K. Puram, New Delhi - 66
9. The General Manger/S&T, RITES Ltd., RITES BHAWAN, 5<sup>th</sup> Floor, Plot No. 1, Sector 29, Gurgaon – 122 001.
10. The Director, IRISSET, Tamaka Road, Lallaguda (P.O), Secunderabad – 500017
11. The Principal, Railway Staff College, Lalbagh, Vadodara-390004
12. The C.S.T.E., Delhi Metro Rail Corporation, 3<sup>rd</sup> Floor, NBCC Place, Bhashampitamah Marg, New Delhi – 110003.
13. Executive Director (QA-S&T), Quality Assurance Cell, RDSO, Lucknow
14. Executive Director/Telecom, RDSO, Lucknow
15. Director/Inspn/S&T/RDSO, Ground floor, DRM Office Bldg., Bangalore-23.
16. Director/Inspn./S&T, RDSO, 1<sup>st</sup> floor, IRCOT Building, Shivaji Bridge, New Delhi 110001.
17. Director/Inspn/S&T/RDSO, 1<sup>st</sup> floor, New Annexe Bldg., Western Railway, Churchgate, Mumbai-400 020
18. Director/Inspn/S&T/RDSO, 4<sup>th</sup> floor, 17 N.S Road West Wing, Fairlie Place, Kolkata- 700 001
19. M/s Deltron Equipment & Systems Pvt Limited, 26 Convent Road, Kolkata 700 014.

  
( अखिलेश कु० यादव )  
निदेशक / सिगनल  
कृते महा निदेशक / सिगनल

**Annexure- I to letter No. STS/E/Foffis/UFSBI-Deltron Dated: 22.11.2012**

1. Part list of UFSBI system manufactured by M/s Deltron,Kolkata is given below-

**UFSBI system : DES/UFSBI**

SN	Details of UFSBI cards	Part Identification	Version No.	Checksum, if any
1	Input card	Deltron/UFSBI/Input	D02S002H03	NA
2	CPU Card	Deltron/UFSBI/CPU	D02S002H03	<b>B7 0E</b>
3	Output card	Deltron/UFSBI/Output	D02S002H03	NA
4	Communication & Control cards	Deltron/UFSBI/CC	D02S002H03	NA
5	DC – DC Conv Module	Deltron/DC-DC con/OS	D01H01	NA
6	Mother Board	Deltron/UFSBI/Backplane	D02S002H03	NA
7	Power Supply Monitor Card (PS MON)	Deltron/UFSBI/PS Mon	D01S001H01	NA
8	Single CPU failure Detection Card (SCFD)	Deltron/UFSBI/SCFD	D00S000H02	NA
9	Modem card	Deltron/Modem	D01S002H02	NA
10	Reset Box	DES/Reset Box	D01S001H03	NA
11	UFSBI Alarm Panel	DES/ALM-PNL	D01H01	NA
Additional Cards required for working with Handle type Tokenless Single Line Block Instrument				
	PSM Card	Deltron/UFSBI/PSM	D01S001H01	NA
Additional Cards required for working with Neal's Tokenless Single Line Block Instrument				
	PSM Card	Deltron/UFSBI/PSM	D01S001H01	NA

....

*3/12/12*  
30/11/12