bf1systems 1SYSTEM TPMS User Guide

1 Modifications

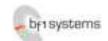
Date	Modifications	Author	Version	Modified Sheets	Approved		
					Ву	Date	Signed
05/02/2021	New Document	WL	1_00				

2 Table of Contents

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3 System Contents

The TPMS system consists of four ECU's (with integrated Antenna), one of which is mounted in each wheel arch, the wheel sensors are mounted into the wheel. Wheel sensor data is communicated via the ECU over the vehicles' CAN bus.

A full vehicle system includes;

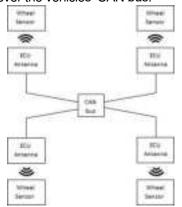
- 4x 1SYSTEM Wheel Sensors
- 4x 1SYSTEM ECU Antennas

Please note.

 Tyre valves are sold and available to purchase separately and are not included as part of the wheel sensor supplied.

Supporting documentation;

• CAN Protocol, Pinout and dbc file



4 Features and User Manual

The features and the content of the user manual may change, please contact bf1systems for the latest version.

5 Warranty

Please refer to the terms and conditions of sale.

6 Technical Specification*

ECU:

Supply: 6.5 – 18 VDC (limited to Maximum 3A)

Transmission Power: 1mW
Frequency: 2.4GHz – 2.48GHz
Operating Temperature: 0°C to 105°C

Ingress Protection: IP6K7

Sensor:

Supply: Built-in battery 3V coin cell Transmission Power: 1mW Frequency: 2.4GHz – 2.48GHz

Operating Temperature: 15°C to 125°C

*Please refer to the product datasheet for further details.



7 Installation

The system components should be securely fastened in place, see below;

ECU:

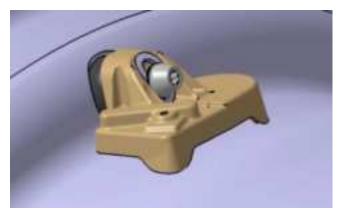
Fastener: M6 Cap Head with plain washer

Torque: 5Nm Max



Sensor*:

Fastener: Valve kit Torque: 4.5Nm Max



*Please refer to the product installation guide for further details.

8 Regulatory Information

Europe

- DECLARATION OF C CONFORMITY

The 1SYSTEM TPMS complies with current European directives.

The declarations of conformity of the various parts of the kit can be found and the end of this document.

USA

- KC STATEMENT

The device complies with Part 15 of the rules. Operation is subject to the following two conditions;

- (1) It must not cause interference and
- (2) The device must accept any radio-electric interference suffered, even if the interference is likely to compromise its use.
- CAUTIONS

Modifications not authorised by the manufacturer may void the user's authority to operate these devices.

- RF EXPOSURE STATEMENT

This equipment complies with the RF radiation exposure limits sets forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator and any part of your body.

Australia

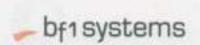
- DECLARATION OF



CONFORMITY



Europe



EU Declaration of Conformity

In Accordance with Directive 2014/53/EU (RED)

bflaystems Ltd.

Technical Centre, Owen Road, Diss, Norfolk, IP22 4ER, United Kingdom.

declare under our sole liability, that the following product,

Model Type ref	Description	Part Number	
TP24G1WE	1SYSTEM TPMS	F1-XXX-1800-XXX Series	
	Wheel Sensor	The second secon	

is in conformity with the assential requirements of Article 3 of the RED (2014/53/EU), If used for its intended purpose.

The product described above has been tested and found to be in conformity with the standards and normative documents:

- Health and Safety requirements contained in Article 3.1a
 - EN 63479:2010
 - IEC 52368-1:2014 (Second Edition)
- Protection requirements with respect to electromagnetic compatibility Article 3.1b.
 - ETSI EN 301 489-17 V3.2.2 (2019-12) (Draft)
 - EN 61326-1:2013
- Means of the efficient use of the radio frequency spectrum Article 3.2
 - ETSI EN 300 328 V2.2.2 (2019-07)

Signed for and on behalf of isfasystems utd.

Place of Issue: Date of issue: Diss, UK. 2020-12-18

Position:

Matt Norton Operations Director

Name:

Position:

Martyn Bensity

Technical Product Manager

This declaration will no longer be valid if any unauthorized modifications are made to the product including the alteration in any form to the software with the prior written approval of bifasystems Ltd.

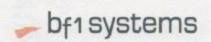
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Europe



EU Declaration of Conformity

In Accordance with Directive 2014/53/EU (RED)

bf1systems Ltd, We,

Technical Centre, Owen Road, Diss, Norfolk, IP22 4ER, United Kingdom.

declare under our sole liability, that the following product,

Model Type ref	Description	Part Number	
BF24G1EC	1SYSTEM ECU Lite	F1-XXX-1799-XXX Series	
	(Type G1)	A CONTRACTOR OF THE PARTY OF TH	

is in conformity with the essential requirements of Article 3 of the RED (2014/53/EU), if used for its intended purpose.

The product described above has been tested and found to be in conformity with the standards and normative documents:

- Health and Safety requirements contained in Article 3.1a
 - EN 62479:2010
 - IEC 62368-1:2014 (Second Edition)
- Protection requirements with respect to electromagnetic compatibility Article 3.1b
 - ETSI EN 301 489-17 V3.2.2 (2019-12) (Draft)
 - EN 61326-1:2013
- Means of the efficient use of the radio frequency spectrum Article 3.2
 - ETSI EN 300 328 V2.2.2 (2019-07)

Signed for and on behalf of bf1systems Ltd,

Place of Issue: Date of issue:

Diss, UK 2020-12-18

Name:

Position:

Matt Norton

Operations Director

Name:

Martyn Bensley

Position:

Technical Product Manager

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Technical Centre Owen Road One Norfolk England IP22 AER Telaphone: -44 IO(1379-646700 Faz: -44 IO(1379-730029











Australia

BOPL BOXC_2800-01

Supplier's declaration of conformity



As required by the following Notices:

- Rediccommunications (Compliance Labelling Devices) Notice 2014 made under section 152 of the Rediccommunications Act 1922; Rediccommunications Labelling (Electromagnetic Compatibility) Notice 2017 made under section 152 of the Rediccommunications Acr 1992;
- Rediccommunications (Compliance Labeling Electromagnetic Rediction) Notice 2014 made under section 152 of the Fladiocommunications Act 1992; and
- Telecommunications (Labelling Notice for Customer Equipment and Gustomer Cabling) Instrument 2015 made under section 407 of the Telecommunications Act 1997.

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And return the records of the ACMA. This completed form must be retained by the supplier as part of the documentation required for the completed records a set be made available for inspection by the ACMA when requested.

Supplier's details

Сопрету Мете договинаци.

Braco Compliance Pty Ltd

RCM Responsible Supplier number

E304

Street Address (Australian)

Unit 308, 469-481 High St

Northcote, VIC 3070

OR

ACNIAREN

84156023504

origion – brand rame, type, current model, lot, batch or sental number (if swallable), software/firmware version (if applicable)



1SYSTEM Tyre Pressure Monitoring System (TPMS), comprising Model 1SYSTEM ECU Lite and Model 1SYSTEM TPMS Wheel Sensor

Evidence of compliance with applicable standards may be demonstrated by test reports, endorsed/accordited test reports, cartification/competent body statemen Having had regard to these documents, I am exterior the above mentioned product complies with the requirements of the relevant ACMA Standards made under the Radiocommunications Act 1992 and the Telecommunications Act 1997.

Lat the details of the documents the above statement was made, including the standard 85s, number and, if applicable, number of the test report and oracle

Radiocommunications (Electromagnetic Compatibility) Standard 2017, refer Element Materials Technology Warwick Ltd. EN 61326-1:2013 test report No. TRA-049589-35-DOC dated 3 October 2020.

Radiocommunications (Short Range Devices) Standard 2014, refer Element Materials Technology Warwick Ltd. ETSI EN 300 328 v2.2.2 test report Nos. TRA-049589-47-00C dated 5 October 2020 and TRA-049589-47-01B dated 30 September 2020.

Radiocommunications (Electromagnetic Radiation - Human Exposure) Standard 2014, refer Element Materials Technology Warwick Ltd. EN 62479:2010 certificate No. TRA-049589-47-028 dated 30 September 2020.

Recollege distri

- I am authorised to make this declaration on behalf of the Company mentioned above.
- the contents of this form are true and correct, and
- the product mentioned above complies with the applicable above mentioned standards and all products supplied under this declaration will be identical to

Note: Under eaction 137.1 of the Criminal Code Act 1995, it is an offence to knowingly provide false or mislearling information to a Commonwealth entity. lensific 12 months imprisonmen

Bruce Maule Director 18 December 2020 The Among Air (309 (Clin) the Privacy Aid represent disposition on the ASAA to instituting the softed time, security (party, excess, use and dust). The ASAA to instituting the softed time (party, excess, use and dust). The ASAA to institute the softed time (party) is about the party of the softed time (party).

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January 2010

