
STATUTORY INSTRUMENTS

2015 No. 591

The Wireless Telegraphy (Ultra-Wideband Equipment) (Exemption) Regulations 2015

PART 2

GENERAL USE OF ULTRA-WIDEBAND EQUIPMENT

Exemption

4. The establishment, installation or use of ultra-wideband equipment complying with the terms, provisions and limitations in regulation 5 is hereby exempt from the provisions of section 8(1) of the Act.

Commencement Information

I1 Reg. 4 in force at 25.3.2015, see [reg. 1](#)

Terms, provisions and limitations

5.—(1) The exemption provided for in regulation 4 shall apply to ultra-wideband equipment which complies with the requirements of paragraphs (2) to (4) of this regulation.

- (2) The ultra-wideband equipment must be used—
- (a) indoors; or
 - (b) other than indoors provided it is not attached to—
 - (i) a fixed installation;
 - (ii) fixed infrastructure; or
 - (iii) a fixed outdoor antenna.

(3) The ultra-wideband equipment must not cause or contribute to undue interference to other users of the electromagnetic spectrum.

(4) The ultra-wideband equipment must emit transmissions which are in accordance with the condition in regulation 6.

Commencement Information

I2 Reg. 5 in force at 25.3.2015, see [reg. 1](#)

Transmission limits

6. The condition referred to in regulation 5(4) is that the ultra-wideband equipment only emits transmissions which—

- (a) in frequencies up to 1.6 GHz when measured in any direction have—
 - (i) a maximum mean power spectral density no greater than -90.0 dBm/MHz; and
 - (ii) a maximum peak power no greater than -50.0 dBm or the equivalent transmission level;
- (b) in the frequency band 1.6 GHz to 2.7 GHz when measured in any direction have—
 - (i) a maximum mean power spectral density no greater than -85.0 dBm/MHz; and
 - (ii) a maximum peak power no greater than -45.0 dBm or the equivalent transmission level;
- (c) in the frequency band 2.7 GHz to 3.1 GHz when measured in any direction have—
 - (i) a maximum mean power spectral density no greater than -70.0 dBm/MHz; and
 - (ii) a maximum peak power no greater than -36.0 dBm or the equivalent transmission level;
- (d) in the frequency band 3.1 GHz to 3.4 GHz when measured in any direction—
 - (i) have a maximum mean power spectral density—
 - (aa) no greater than -70.0 dBm/MHz; or
 - (bb) no greater than -41.3 dBm/MHz provided that one of the two techniques referred to in regulation 7 is used to mitigate interference to other users of the electromagnetic spectrum; and
 - (ii) have a maximum peak power—
 - (aa) no greater than -36.0 dBm or the equivalent transmission level; or
 - (bb) no greater than 0 dBm or the equivalent transmission level provided that one of the two techniques referred to in regulation 7 is used to mitigate interference to other users of the electromagnetic spectrum;
- (e) in the frequency band 3.4 GHz to 3.8 GHz when measured in any direction—
 - (i) have a maximum mean power spectral density—
 - (aa) no greater than -80.0 dBm/MHz; or
 - (bb) no greater than -41.3 dBm/MHz provided that one of the two techniques referred to in regulation 7 is used to mitigate interference to other users of the electromagnetic spectrum; and
 - (ii) have a maximum peak power—
 - (aa) no greater than -40.0 dBm or the equivalent transmission level; or
 - (bb) no greater than 0.0 dBm or the equivalent transmission level provided that one of the two techniques referred to in regulation 7 is used to mitigate interference to other users of the electromagnetic spectrum;
- (f) in the frequency band 3.8 GHz to 4.8 GHz when measured in any direction—
 - (i) have a maximum mean power spectral density—
 - (aa) no greater than -70.0 dBm/MHz; or
 - (bb) no greater than -41.3 dBm/MHz provided that one of the two techniques referred to in regulation 7 is used to mitigate interference to other users of the electromagnetic spectrum; and
 - (ii) have a maximum peak power—
 - (aa) no greater than -30.0 dBm or the equivalent transmission level; or

- (bb) no greater than 0.0 dBm or the equivalent transmission level provided that one of the two techniques set out in regulation 7 is used to mitigate interference to other users of the electromagnetic spectrum;
- (g) in the frequency band 4.8 GHz to 6.0 GHz when measured in any direction have—
 - (i) a maximum mean power spectral density no greater than -70.0 dBm/MHz; and
 - (ii) a maximum peak power no greater than -30.0 dBm or the equivalent transmission level;
- (h) in the frequency band 6.0 GHz to 8.5 GHz when measured in any direction have—
 - (i) a maximum mean power spectral density no greater than -41.3 dBm/MHz; and
 - (ii) a maximum peak power no greater than 0.0 dBm or the equivalent transmission level;
- (i) in the frequency band 8.5 GHz to 9 GHz when measured in any direction have—
 - (i) a maximum mean power spectral density—
 - (aa) no greater than -65.0 dBm/MHz; or
 - (bb) no greater than -41.3 dBm/MHz provided that the technique referred to in regulation 7(b) is used to mitigate interference to other users of the electromagnetic spectrum; and
 - (ii) have a maximum peak power—
 - (aa) no greater than -25.0 dBm or the equivalent transmission level; or
 - (bb) no greater than 0.0 dBm or the equivalent transmission level provided that the technique referred to in regulation 7(b) is used to mitigate interference to other users of the electromagnetic spectrum;
- (j) in the frequency band 9 GHz to 10.6 GHz when measured in any direction have—
 - (i) a maximum mean power spectral density no greater than -65.0 dBm/MHz; and
 - (ii) a maximum peak power no greater than -25.0 dBm or the equivalent transmission level; and
- (k) in frequency bands above 10.6 GHz when measured in any direction have—
 - (i) a maximum mean power spectral density no greater than -85.0 dBm/MHz; and
 - (ii) a maximum peak power no greater than -45.0 dBm or the equivalent transmission level.

Commencement Information

I3 Reg. 6 in force at 25.3.2015, see [reg. 1](#)

Mitigation techniques

- 7. The mitigation techniques referred to in regulation 6 are—
 - (a) the low duty cycle mitigation technique and its limits described in harmonised standard EN 302 065-1(1); and
 - (b) the detect and avoid mitigation technique and its limits described in harmonised standard EN 302 065-1.

Changes to legislation: There are currently no known outstanding effects for the *The Wireless Telegraphy (Ultra-Wideband Equipment) (Exemption) Regulations 2015, PART 2. (See end of Document for details)*

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Commencement Information

I4 Reg. 7 in force at 25.3.2015, see [reg. 1](#)

Changes to legislation:

There are currently no known outstanding effects for the The Wireless Telegraphy (Ultra-Wideband Equipment) (Exemption) Regulations 2015, PART 2.