

Sensurity PIDs EU Compliance

This document collates the relevant compliance criteria for non-specific SRDs in the EU.

Sensurity PIDs devices operate from 5785-5815 MHz with 14 dBm EIRP and are certified under the ETSI EN 300 440-1 V1.6.1 / EN 300 440-2 V1.4.1 standard as a non-specific short-range device (SRD). See document 15E5191-C2-Sensurity-Halo-Certificate-of-Conformity available from Sensurity.

The EU Commission SRD Implementing Decision amendment states that Band No: 61 (5725-5875 MHz) covering SRD devices (such as Halo & Vigil) has a max transmit power of 25mW EIRP. Sensurity devices have a Output power of +14 dBm (25mW) EIRP. Thus the Halo and Vigil meet the specification. No other usage restrictions are applied. See Figure 1.

Band no	Frequency band (*)	Category of short-range devices (*)	Transmit power limit/field strength limit/power density limit (*)	Additional parameters (channelling and/or channel access and occupation rules) (*)	Other usage restrictions (*)	Implementation deadline
61	5 725-5 875 MHz	Non-specific short-range devices (*)	25 mW e.i.r.p.			1 July 2014

Figure 1: Band No: 61 2013 EU Commission SRD Implementing Decision

Reference 3 (See Figure 2) of the same document states that:

'The non-specific short-range device category covers all kinds of radio devices, regardless of the application or the purpose, which fulfil the technical conditions as specified for a given frequency band. Typical uses include telemetry, telecommand, alarms, data transmissions in general and other applications.'

(*) The non-specific short-range device category covers all kinds of radio devices, regardless of the application or the purpose, which fulfil the technical conditions as specified for a given frequency band. Typical uses include telemetry, telecommand, alarms, data transmissions in general and other applications.

Figure 2: Ref 3, 2013 EU Commission SRD Implementing Decision

Technical Conditions for non-specific SRDs are set out in ETSI EN 300 440-1 V1.6.1 / EN 300 440-2 V1.4.1 standard and in the 2013_ERC 70-03 - CEPT Recommendation Relating to Use of SRDs which the standard references. The non-specific SRD range 5725-5875 MHz which covers HALO and VIGIL states the power of 25mW EIRP. There are no spectrum access requirements or channel spacing requirements. See Figure 3.

	Frequency Band	Power / Magnetic Field	Spectrum access and mitigation requirements	Channel spacing	ECC/ERC Decision	Notes
i	5725-5875 MHz	25 mW e.i.r.p.	No requirement	No spacing		

Figure 3: CEPT Recommendation relating to the Use of SRDs Annex 1/i

The European countries that implement Annex 1/i are listed in Appendix 1 See Figure 4.

APPENDIX 1: COUNTRIES FOR CLASS 1 EQUIPMENT																																		
Annexes to ERC/REC 70-03	AUT	BEL	BUL	CZE	CYP	DNK	EST	FIN	F	D	HRV	GRC	HNG	ISL	IRL	I	LVA	LIE	LTU	LUX	MLT	HOL	NOR	POL	POR	ROU	SVK	SVN	E	SUI	S	G		
Annex 1 - Non-Specific SRDs																																		
Annex 1I: 5725-5875 MHz	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y

Figure 4: Appendix 1 Countries for Class 1 equipment

National restrictions for Annex 1/i are listed in Appendix 2. Only the Russian Federation is listed as having national restrictions for Annex 1/i. See Figure 5.

	Country	Limited implementation	Usage restrictions
Annex 1 Band I (Non-Specific SRDs) 5725-5875 MHz	Russian Federation	Limited implementation	Duty cycle 0.1% or LBT. Antenna height should not exceed 5 m, with max e.i.r.p. 25 mW

Figure 5: Russian Federation restrictions Annex 1 Band I

For more information on compliance and Sensurity device use in your region please contact Sensurity.