

Equipment Description

Technical Description: <i>(Please provide a brief description of the intended use of the equipment including the technologies the product supports)</i>	The MSR module can be used in products for different types of wireless connectivity. The Bluetooth function can be used for smart devices and 802.15.4 based protocols e.g. Thread, GLoWPAN, etc. for monitoring, control or cloud services
Manufacturer:	Grundfos Holding A/S
Model:	MSR – Multistandard Radio module
Part Number:	BLE Module 92542810 ; MSR Module 92542811
Hardware Version:	R02 & R03
Software Version:	bleModule_CC2652R1_V04.40.04.xxxx
FCC ID of the product under test – see guidance here	OG3-RA2G4MSR
IC ID of the product under test – see guidance here	10447A-RA2G4MSR

Intentional Radiators

Technology	BLE					
Frequency Range (MHz to MHz)	2400 – 2483.5 MHz					
Conducted Declared Output Power (dBm)	4					
Antenna Gain (dBi)	2.15					
Supported Bandwidth(s) (MHz) (e.g 1 MHz, 20 MHz, 40 MHz)						
Modulation Scheme(s) (e.g GFSK, QPSK etc)	O-QPSK / GMSK					
ITU Emission Designator (see guidance here) (not mandatory for Part 15 devices)	1M00X					
Bottom Frequency (MHz)	2400 MHz					
Middle Frequency (MHz)						

Top Frequency (MHz)	2483.5 MHz					
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Un-intentional Radiators

Highest frequency generated or used in the device or on which the device operates or tunes	2483.5 MHz
Lowest frequency generated or used in the device or on which the device operates or tunes	2400 MHz
Class A Digital Device (Use in commercial, industrial or business environment) <input checked="" type="checkbox"/>	
Class B Digital Device (Use in residential environment only) <input type="checkbox"/>	

AC Power Source

AC supply frequency:		Hz
Voltage		V
Max current:		A
Single Phase <input type="checkbox"/> Three Phase <input type="checkbox"/>		

DC Power Source

Nominal voltage:	3.3	V
Extreme upper voltage:	3.8	V
Extreme lower voltage:	2.0	V
Max current:	0.10	A

Battery Power Source

Voltage:		V
End-point voltage:		V (Point at which the battery will terminate)
Alkaline <input type="checkbox"/> Leclanche <input type="checkbox"/> Lithium <input type="checkbox"/> Nickel Cadmium <input type="checkbox"/> Lead Acid* <input type="checkbox"/> *(Vehicle regulated)		
Other <input type="checkbox"/> Please detail:		

Charging

Can the EUT transmit whilst being charged	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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Temperature

Minimum temperature:	-10	°C
Maximum temperature:	+70	°C

Cable Loss

Adapter Cable Loss (Conducted sample)	1.0	dB
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Antenna Characteristics

Antenna connector <input type="checkbox"/>			State impedance		Ohm
Temporary antenna connector <input type="checkbox"/>			State impedance		Ohm
Integral antenna <input checked="" type="checkbox"/>	Type:		Gain	2.15	dBi
External antenna <input type="checkbox"/>	Type:		Gain		dBi
For external antenna only:					

Standard Antenna Jack ☐ If yes, describe how user is prohibited from changing antenna (if not professional installed):
Equipment is only ever professionally installed ☐
Non-standard Antenna Jack ☐

Ancillaries (if applicable)

Manufacturer:		Part Number:	
Model:		Country of Origin:	

I hereby declare that the information supplied is correct and complete.

Name: Nikolaj Haahr Korshøj

Position held: Lead Digital Compliance Specialist

Date: 02.06.2021