

## MODULAR APPROVAL REQUEST

**Date 25/01/2018**

Element Materials Technology  
100 Frobisher Business Park  
Leigh Sinton Road  
Malvern  
Worcestershire  
WR14 1BX  
UK

RE: FCC Modular Approval  
FCC ID: 2AK3PGSD-500349

To Whom It May Concern:

Please be advised that the manufacturer requests that the above-referenced model be approved for Modular Approval in accordance with the FCC Rules and Regulations.

**Our Product meets the FCC modular approval policies in the following ways:**

**i** The radio elements must have the radio frequency circuitry shielded. Physical/discrete and tuning capacitors may be located external to the shield, but must be on the module assembly;  
No shielding applicable

**ii** The module must have buffered modulation/data inputs to ensure that the device will comply with Part 15 requirements with any type of input signal;  
It does have data inputs

**iii** The module must contain power supply regulation on the module;  
PSU regulation is available on the LoRa transceiver PCB

**iv** The module must contain a permanently attached antenna, or contain a unique antennaconnector, and be marketed and operated only with specific antenna(s), per Sections 15.203, 15.204(b), 15.204(c), 15.212(a), 2.929(b);  
The antenna shape varies according to the end product LoRa module is used in.

**v** The module must demonstrate compliance in a stand-alone configuration;  
Looking to pursue Limited Approval instead full Modular Approval

Rentokil Initial plc: Registered in England and Wales Company No: 5393279  
Registered office: Riverbank, Meadows Business Park, Blackwater, Camberley, Surrey, GU17 9AB

**vi** The module must be labelled with its permanently affixed FCC ID label, or use an electronic display (See KDB Publication 997198 about labelling requirements);  
The module is too small. The ID will be in the Manual and host product label.

**vii** The module must comply with all specific rules applicable to the transmitter. The grantee must provide comprehensive instructions to explain compliance requirements;  
The LoRa module is tailor made for Rentokil Initial Long Reach PestConnect products and not sold as a standalone module or used elsewhere.

**viii** The module must comply with RF exposure requirements. For any transmitters intended for use in portable devices, SAR compliance must be demonstrated to be independent of the host device. See KDB Publication 447498 Item 2) as a guide to determine if a transmitter can be tested without being limited to a host device. If SAR compliance can only be demonstrated in specific host types or platforms, then the module type must be "limited."  
Not been advised that SAR test is applicable

Where a condition is not met please complete the limited modular approval letter to state how the rules for limited modular approval will be adhered to.

Thank you for your attention to this matter.

Yours faithfully



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Rentokil Initial 1927 plc