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DECLARATION FOR THE MEETING OF CONDITIONS TO KDB602159

Date 01 March 2017

To Whom It May Concern:

Question: *What are the special requirements for Part 15 repeaters?*

Answer: *A Part 15 repeater is a device that is intended to re-radiate an input signal by demodulating, re-shaping or re-timing the signal; and/or perform a combination of any of these functions, on a radio frequency input signal. A Part 15 repeater is a device intended for re-transmission of information that ensures the elimination of re-transmissions of any input noise or any other unwanted signals. These devices can be approved under the following conditions:*

1. A Part 15 repeater must be certified with a unique FCC ID, and used with transmitters that operate compliant to a specific Part 15 rule, or set of rules (as a composite device). The repeater must only re-transmit signals that are uniquely identified as originating from a transmitter, or set of transmitters, with which the repeater is authorized to operate.

Answer 1. The repeater has the FCC ID N20IN-RP002F2. The repeater will only re-transmit signals that are received from IMC transmitters. The data is checked for length and the correctness of the CRC before re-transmission in exactly the same format as received. Any data failing the tests are not re-transmitted.

2. The Grant of Equipment Authorization for a Part 15 repeater must list the FCC IDs for all transmitters with which the repeater is authorized to operate. Additional transmitters can be added through a Class II permissive change, provided that test data is submitted for each new transmitter. A Grant of Authorization will then be issued approving the additional transmitter(s) with the listed FCC IDs.

Answer 2. The repeater is intended to operate with the following IMC transmitters. The FCC ID is N20IN-TH001F2 and the part numbers of the individual transmitters are:

IN-TH001F2	Single channel temperature transmitter.
IN-WT002F2	Single channel temperature transmitter + Door Alarm input.
IN-WT003F2	External temperature probe.

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IN-WT004F2	External temperature probe + Door Alarm Input.
IN-THD01F2	Single channel Probes + Door Alarm Input.
IN-TH002F2	Single channel remote Probe.
IN-TH003F2	Dual channel internal + external Temperature probe.
IN-TH004F2	Dual channel with two external temperature probes.
IN-PT001F2	Single channel PT100 temperature probe.
IN-PTD01F2	Single channel PT100 temperature probe + door Alarm input.
IN-PT002F2	Dual channel PT100 temperature probes.
IN-TT001F2	Single channel thermocouple temperature probe.
IN-TT002F2	Dual channel thermocouple temperature probes.
IN-TTD01F2	Single channel thermocouple temperature probe + door Alarm input.
IN-MA001F2	Dual channel 4-20mA inputs
IN-VT001F2	Dual channel 0-1 volt inputs
IN-VT002F2	Dual channel 0-5 volt inputs
IN-VT003F2	Dual channel 0-10 volt inputs
IN-RH001F2	RH/T Fixed probe.
IN-RH002F2	RH/T Remote probe.

3. Part 15 repeaters designed to be inter-operable with open source or industry standard transmitters, must provide test data demonstrating compliance with a certified transmitter. The Grant of Equipment Authorization must note the FCC ID of the transmitter used for the inter-operable test.

Answer 3. It is not intended to be interoperable with open source or industry standard transmitters.

4. A Part 15 repeater must comply with all requirements in the rule part under which the Grant of Equipment Authorization is requested, including technical, operational and all other limitations set forth in the applicable rules, regardless of the input signal conditions. For example, a Part 15 repeater Frequency Hopping Spread Spectrum (FHSS) system operating under Section 15.247 must meet the receiver requirements in Section 15.247(a)(1) with the input bandwidths that match the FHSS transmit bandwidth, and must hop in synch with the FHSS transmitter.

Answer 4. Condition already met on test report.

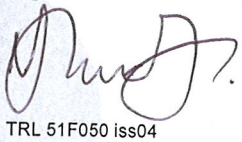
5. Tests must show compliance with maximum input levels, for each transmitter with which the repeater is authorized to operate.

Answer 5. Condition already met on test report.

Thank you for your attention to this matter.

Yours faithfully

Company
The IMC Group Ltd
Name
Neil Lundy
Signature



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