

12 June 2001

TCB
BABT Product Service
4855 Patrick Henry Drive, Building 6
Santa Clara, CA 95054

RE: Application for Class II Permissive Change
FCC ID: OH2500RU

Dear Sir/Madam:

Transmitted herewith, on behalf of Minimed, is the application (FCC Form 731) for the Permissive Change for Equipment Authorization by the Certification Procedure for the Model 500 Remote Programmer.

The changes made are attached to the letter. Also, enclosed is new Part 15, Paragraph 15.231(e) radiated data.

Please note that TÜV Product Service is the authorized agent for Minimed. Direct all communications and send the grant to TÜV Product Service.

If you have any questions concerning this application, please contact me at 858 546 3999, Ext. 419.

Sincerely,

A handwritten signature in cursive script that reads "Judy Evans".

Judy Evans,
Technical Writer

Table I outlines the changes from Minimed Assembly D7053163-001 to D7053194-003.

TABLE I – ASSEMBLY CHANGE

DESCRIPTION OF CHANGE	REASON
PCB Part Number from D6053117-001 to D6053133-003	New Board Layout
U1 Part Number from Minimed D1073189-001 to D1073226-001	Needed More Board Space.
U3 Part Number from RFM HX1003 to RFM TX5002	RFM is discontinuing HX1003.
R1 Value from 20 Kohm to 4.99 Kohm	Transmitter Power Adjustment
R2 Value from 221 Kohm to 19.1 Kohm	Optimization of U1 /MCLR circuit
C1 Value from 150 pF to 100 pF	Different Transmitter Circuit
C8 Value from 150 pF to 100 pF	Different Transmitter Circuit
Removed R5 (150 Ohm)	Different Transmitter Circuit
Added C9 (10.0 uF)	Different Transmitter Circuit
Added 56 nH Inductor at L1	Different Transmitter Circuit
Added 56 nH Inductor at L2	Different Transmitter Circuit

These changes were necessary because RFM discontinued manufacture of the 418.00 MHz transmitter HX1003. The equivalent part they suggested to use is the TX5002 part. However, this newer circuit is not identical in hardware set-up. Hence, the need for other outlined changes.

There was some question regarding the reason Transmitter Power Adjustment for changing the R1 Value from 20 Kohm to 4.99 Kohm. This was necessary because the newer RFM TX5002 part did not have optimal system behavior when using the 20 Kohm resistor. There are system losses at the non-ideal antenna, hence, actual power output will be equivalent to the previous unit as proven by the TUV Test Report Data. This power was chosen because earlier submission of a similar part (TR1000) for a differing frequency had good margin below the FCC limit.