Technical Support

TECHNICAL NOTE

Applicability

This Technical Note details the method of choosing the correct Gap period for Selcall Tones – and why this is important even with no gaps in a format. This applies to TM8100 & TM8200.

1.   Description

The default value in the TM8100/TM8200 Programming App. for Gap Period in a Selcall tone is 20ms. Adjusting this setting is often overlooked when selecting a Tone Period as many Selcall formats contain no gaps. However, if the Gap Period is much smaller than the Tone Period, when the receiving radio decodes the Selcall tone, small spaces that exist between characters will be decoded as Gaps.
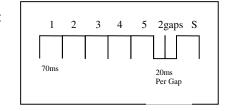
Basically, Gap Period needs to be the same length or longer than the Tone Period, whether there are Gaps present in the Selcall format or not.
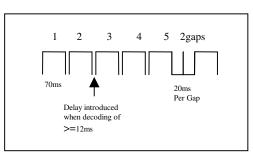
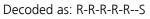For Example:

Tone Period 70ms
Gap Period 20ms

Selcall Encoded: RRRRR--S

Tone Sent:

Tone Received:

Decoded as: R-R-R-R-R--S

The 12ms spaces are read as gaps because they are 60% or   more of the 20ms Gap period defined.

When Gap period is larger these spaces will be ignored and sequence will decode as intended, ie. RRRRR--S

Ensure Gap Period is the same or longer than Tone Period.

Related Issues   See TN-938 for compatibility with T2000 issues.

Compliance Issues   None.

CSO Instruction   Inform all service staff and dealers of the released information.

2.   Issuing Authority

Name and Position   Simon Nieper
of Issuing Officer   Technical Support Engineer

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Distribution Level   Associate.

Document History   Original Release   1 February 2006   SJN