



Tech note

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Adjusting EN7016 Survey Kit Results for EN1221S-60 Waterproof Pendants

## Introduction

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The EN1221S-60 family of waterproof pendants have a lower RF transmission power than the EN1223SK pendant survey transmitter.

To ensure complete coverage, Inovonics recommends making the following adjustment when using the Inovonics EN7016 survey kit for system installations that will include EN1221S-60 waterproof pendants.

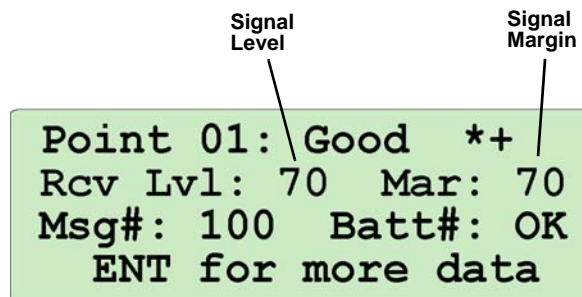
## Adjusting the EN7016 Survey Kit Results

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The EchoStream survey kit is used to determine the optimal location of Inovonics devices. To do so, the survey kit provides two signal strength measurements: signal level and signal margin.

The signal level is the measurement of the overall decibel level of the message; the signal margin is the measurement of the decibel level of the message, minus the decibel level of any interfering signals.

Both the signal level and signal margin are displayed on the EN4016SK survey receiver's display during the site survey



**Figure 1** Signal level and signal margin

Good displays when the signal margin is four decibels or more. Weak displays when the signal margin is less than four decibels.

To compensate for the lower RF transmission power of the EN1221S-60 family of waterproof pendants, use the EN1223SK pendant survey transmitter when performing your site survey, and ensure a signal margin of at least 10.