**Table 4-2: Gain Factors**

| Setting | MTU | | MTU-A |
|---|---|---|---|
| | E Gain | H Gain | E and H Gain |
| Low | 10 | 3 | 1 |
| Normal | 40 | 12 | 4 |
| High | 160 | 48 | 16 |

On an MTU, the gain settings apply much larger factors than on an MTU-A. This means that whereas an MTU gain is almost never set to High, an MTU-A gain is almost always set to High, unless saturations or other problems occur.

## Coupling

When set to AC Coupling, the MTU-A uses a high pass filter with a corner frequency of 2Hz. This means that for AMT soundings, either AC or DC coupling may be appropriate depending on the depth of investigation. However, for MT soundings, the MTU-A should be set to DC coupling for both E and H channels—AC Coupling would attenuate the frequencies of interest in MT.

# Setting frequency parameters

This section explains the settings for data type (AMT or MT), frequency bands, and sample interval ("time slot").