



[www.imoticondrives.co.uk](http://www.imoticondrives.co.uk)

<b>Document number</b>	Imoticon-ID700-004
<b>Revision</b>	0.0
<b>Author</b>	Gareth Lloyd
<b>Product</b>	Imoticon ID700

<b>Title</b>	Imoticon ID700 Analogue Input Scaling
--------------	---------------------------------------

<b>Summary</b>	This document gives information for the ID700 analogue inputs scaling if a minimum speed is set
----------------	---

**NOTE:** Please read this document in conjunction with the Imoticon ID700 Easy Start Guide and Imoticon ID700 Advanced User Manual.

When a minimum frequency of 0.0Hz and a maximum frequency of 50.0Hz is set, analogue input 1 (or analogue input 2 if controlling frequency/speed) scales itself so 0V = 0.0Hz and 10V = 50.0Hz.

The same is true depending on the setting of P00.11:

**0:** 0mA = 0.0Hz, 20mA = 50.0Hz

**1:** 20mA = 0.0Hz, 0mA = 50.0Hz

**2 & 4:** 4mA = 0.0Hz, 20mA = 50.0Hz

**3 & 5:** 20mA = 0.0Hz, 4mA = 50.0Hz

If the minimum speed is changed from 0.0Hz to 10Hz for example, the analogue input re-scales itself accordingly. Therefore 0V equals 10Hz (minimum frequency), +10V = 50Hz.