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Product	Imoticon ID700
Title	
Imoticon ID700 Display Speed Scaling	
Summary	This document gives information on how to set up the Imoticons display for RPM and also how to set up the display to show final system RPM

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

Overview

The Imoticon ID700s display can be set to show motor RPM rather than the default motor frequency in Hz.

To display motor RPM:

Set parameter P00.23 = 1 – Advanced parameter access

Set parameter P13.09 to the number of motor poles:

- 1: 2 pole
- 2: 4 pole (Default)
- 3: 6 pole
- 4: 8 pole

Set parameter P05.01 = 5.10

When the drive is run, the display will now show motor RPM rather than Hz.

To add a scaling factor to this display so the display shows final system RPM, set a value into parameter P05.09

For example:

A system has a 4 pole motor with a 10:1 ratio gearbox and the drive is required to show gearbox output speed:

Set parameter P00.23 = 1 – Advanced parameter access

Set parameter P13.09 = 2 – number of motor poles as 4 pole (default setting)

Set Parameter P05.01 = 05.10 – display to show RPM

Set parameter P05.09 = 10.0% - Multiplies display RPM by 0.1

When the drive is run, the display will show a RPM value between 0 and 150RPM.

NOTE: This display RPM value is not an accurate RPM value but is an indication of motor RPM or final system RPM.

While running, if you want to see drive output frequency, press the >> button once so that the Frequency LED just to the right of the 7 segment display is flashing. This display will now show pre-ramp frequency reference.

To get back to motor RPM, press the >> button another 4 times.

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