

Introduction

This exercise is meant to use RDT environment to develop an HMI able to communicate with your Robox R3 program. To make this exercise you will need a controller and a pc with RDE and RDT. In order to try your HMI project, you will need a Robox HMI device; if you don't have any, you can use RTM on your pc.

1. RDE phase_pos exercise

This exercise is related to RDE phase_pos exercise. You must do that project, load it into your controller and then start drawing an RDT interface to communicate with it. From the litreg.i3 file you will know the registers that you need to handle on the panel to be able to fully control your system from the HMI. An oscilloscope page is requested to see all axes IV.

2. Graphics and presentation

When you work with HMI you must always remember that the user likes to deal with an easy to use interface and the customer will appreciate if your graphical level is good. To reach both these targets, Robox provides an RDT buttons repository, which is stored in RSM shared OneDrive folder. Using this kind of button libraries will allow you to write less text and to gain a lot in the beauty of your HMI presentation.



Picture 2 – Examples of different button libraries provided

3. Debug

Reboot your controller and connect it to your HMI. Try to use your HMI to control the system and see if everything is working correctly.