

AKI Sample Project: Full Menu

Overview

This HMI program is set up to be able to configure and run the AKD drive in some of the most common methods. The operator can select operation modes, configure and execute motion commands, read status, and view and clear faults, along with access to most of the common configuration features of the AKD.

Features:

- Select operating mode
- Setup and run the drive in each operating mode
- Configure and start homing
- Create, edit, and run motion tasks
- Read motion status
- Read and clear faults
- Stop motion
- Configure user units

Requirements:

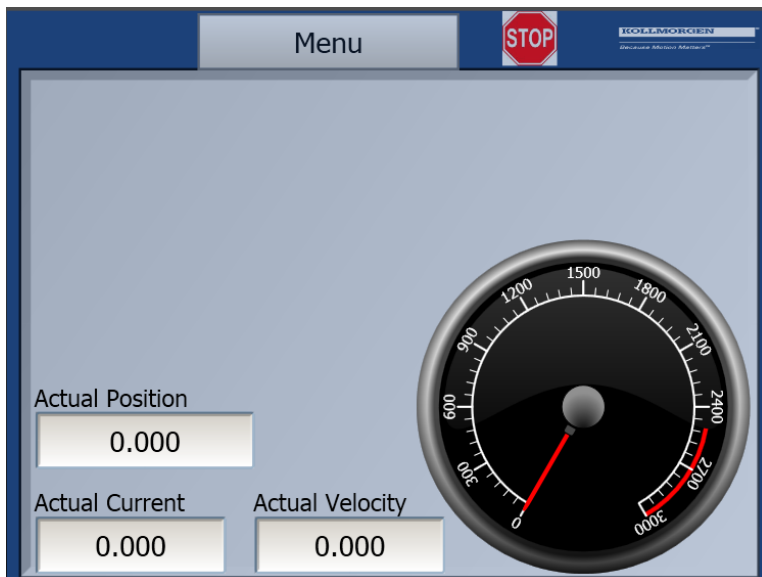
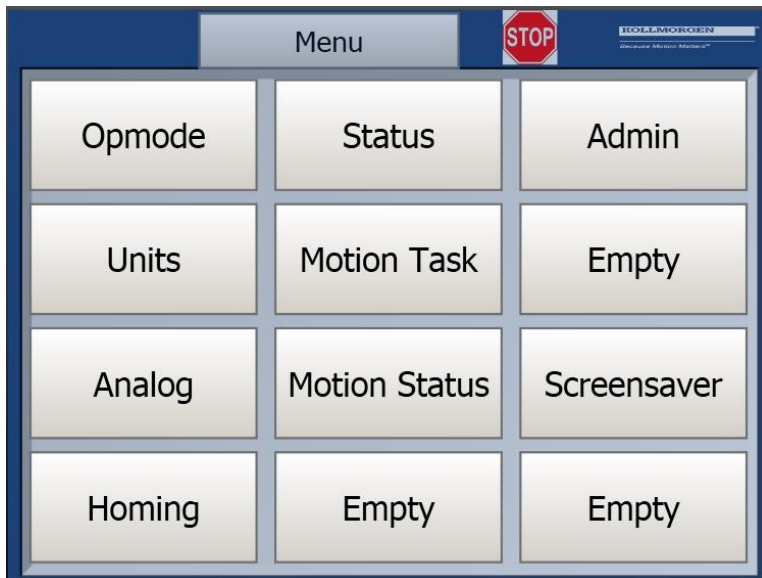
- HMI program is set up for the AKD to have IP Address 192.168.0.2.
- Must have MODBUS.SCALING = 0 in order to use normal drive units.

Application Note

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HMI Screenshots



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Reset Drive to Factory Defaults

Clear Faults

(Wait for several seconds.)

Fault 1	Fault 2	Fault 3	Fault 4	Fault 5
0	0	0	0	0
Fault 6	Fault 7	Fault 8	Fault 9	Fault 10
0	0	0	0	0

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Position Unit

User Unit Ratio
 User Units : Motor Revs

Velocity Unit


Acceleration Unit

DRV.EMURES
 Lines/rev


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Task Number
0 MT.LOAD

 Set Home

Target Position 0.000 Target Speed 0.000


Acceleration 0.000 Deceleration 0.000

Number of Task to Run
0 Move

 Continue

Motion Task Type

Actual Position 0.000 Set Clear

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Analog I/O

Velocity Scale 0.000 Units / Volt

Current Scale 0.000 Units / Volt

Position Scale 0.000 Units / Volt

Analog Offset 0.000 Volts

Analog Input Value 0.000 Volts

Analog Output Value 0.000


User Defined A-Out Value 0.000

Output Position Scale 0.000
















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Motion Status

 Motion Task Moving	 Emergency Stop in Progress
 Home Position Found	 E-Stop Error
 Home Routine Finished	 Service Motion Active
 Homing Move Active	 Motion Task Error
 Homing Error	 Target Position Reached
 Electronic Gearing Synchronized	 MT Target Vel Reached
 Electronic Gearing Active	 MT Error
	 Target Pos Crossed

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Homing Mode

Homing Acceleration <input type="text" value="0.000"/>	Homing Current Limit <input type="text" value="0.000"/>	
Homing Deceleration <input type="text" value="0.000"/>	Position Error Threshold <input type="text" value="0.000"/>	
Homing Speed <input type="text" value="0.000"/>	Dist to move after <input type="text" value="0.000"/>	 (Set position to zero)
Home Offset <input type="text" value="0.000"/>	Homing Direction <input type="text"/>	
	Actual Position <input type="text" value="0.000"/>	

Script Programming in C#

Motion Task Screen:

```
public partial class MT
{
    //When the Move button is pressed, send the move number to MT.MOVE.
    //Create this code by expanding the object name (Button4) in the tree,
    //and double clicking on "Click".
    void Button4_Click(System.Object sender, System.EventArgs e)
    {
        Globals.Tags.MT_MOVE.Value = Globals.Tags.Movetomake.Value;
    }
}
```