



Notes on connecting Eason 2000 Family products to ACTech drives via Modbus RTU.

See demo program on your hard drive:

C:\Program Files\Winbuild2000v4\Samples\Motion Control\ACTech

DRIVER SETUP

ACTech requires a Modbus RTU connection. Thus click **SETUP** ▶ **PROJECT** ▶ **DRIVERS**, and the Generic Modbus RTU driver to your project, and configure like the following:

The first screenshot shows the 'Modbus Base' tab with 'PLC Address/ID' set to 1. A callout box points to this field with the text: "This is the serial ID of your ACTech drive".

The second screenshot shows the 'Multidrop' tab with 'Multidrop' set to 'RS-485'. A callout box points to this dropdown with the text: "This is the serial port on the Eason you are using to connect".

The third screenshot shows the 'Modbus Base' tab with '1-based' selected. A callout box points to this radio button with the text: "Match these settings to the ACTech port settings (parameter 15)".

Note that Parameter 15 in the ACTech should be set to match the port settings in the Modbus RTU driver. Whatever you select, be sure that P15 is set for **NO** timeout.

CREATE TAGS

Communication is straight-forward and taken care of by the driver. Enter your variables into the TAG TABLE, and the driver will take care of read/writing when you use them in your project.

Then, in order to gain read/write access to certain variables, you'll need to set the 'unlock' variables to your pre-set password. In the demo program, this is done through two registers:

| Tag | Symbol | Driver | Address | Format | Value |
|-----|---------|-----------------------------|---------|--------|-------|
| 12 | unlock | Generic Modbus RTU [1] on 2 | 40049 | Word | 0 |
| 13 | unlock2 | Generic Modbus RTU [1] on 2 | 40050 | Word | 0 |
| 14 | X | Internal Volatile | R | Real | 0 |

On the opening screen of the project, both variables are set to the password in the ACTech to allow reading/writing to your parameters. (In this case password is just '0000'.)

```
Code For Current Object
SET DRIVER "Generic Modbus
REM wait 500
unlock = 0000 REM password
unlock2 = 0000 REM password
REM carrier = 8
REM maxfreq = 2400
```

Note that the addresses are +1 higher than in the ACTech Modbus documentation. Thus to access parameter 40069 (Acceleration) you need to enter '40070' into the address column in the tag table.