

## MODBUS RTU SETUP FOR TECO ALTIVAR 320 DRIVES

To set up Modbus RTU on an [Altivar 320](#) (ATV320), you must configure parameters in the drive's menu tree (CONF, FULL, CON- menu) to define the [Modbus address](#), [baud rate](#) (tbr), data format (tFO), and then set the [command \(CD1\)](#) and [reference \(FR1\)](#) channels to MDB (Modbus). After changing these settings, you need to cycle the ATV320's power to save the configuration.

Here are the step-by-step instructions for setting up Modbus RTU on an ATV320:

1. **1. Access the Configuration Menu:**
  - Press the Menu button, navigate to CONF, then select FULL for full access, and then go to the CON- menu.
2. **2. Set the Modbus Address:**
  - Find the parameter for the Modbus address and set it to a unique value for the drive within the network (e.g., address 1 is the default).
3. **3. Configure the Transmission Speed (Baud Rate):**
  - Locate the tbr parameter and select the desired baud rate from the options available (e.g., 4.8, 9.6, 19.2, or 38.4 kbps).
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4. **4. Set the Data Format:**
  - Find the tFO parameter and choose the appropriate data format. Common options include:
    - **8n1: 8 data bits, no parity, 1 stop bit.**
    - **8E1: 8 data bits, even parity, 1 stop bit.**
    - **8O1: 8 data bits, odd parity, 1 stop bit.**
5. **5. Configure the Communication Channels:**
  - Navigate to the CTL (Control) menu.
  - Set CD1 to MDB to use Modbus for the command channel.
  - Set FR1 to MDB to use Modbus for the reference channel.
  - Configure CHCF (profile) according to your system's needs (e.g., separate, not separate, or I/O mode).
6. **6. Save the Configuration:**
  - After making all the necessary changes, power off the ATV320 and then power it on again to save and activate the new Modbus settings.