

easYgen-3000XT; How to write a frequency setpoint via Modbus

Justin Schneider - 2026-07-27 - [communication](#)

How to write or change the frequency setpoint in easYgen-3000XT controls?

There are two convenient ways to remotely write a setpoint in EasYgen-3000XT controls.

1. The first method is to use the remote frequency setpoint ID 509, which is equivalent to Modbus address 509.

An example of this method can be found in the manual:

Example 3: Frequency interface setpoint

The frequency setpoint value must be written to object 21FD (hex), i.e. parameter 509. A frequency value of 50.00 Hz = 5000 (dec) = 1388 (hex) is to be transmitted.

- Modbus address = 40000 + (Par. ID + 1) = 40510
- Modbus length = 1 (UNSIGNED 16)

1. > To set the parameter address in ModScan32:

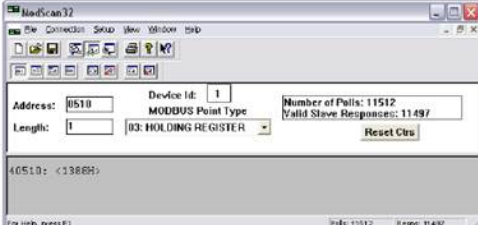
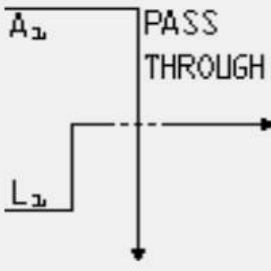


Fig. 338: Modscan32 at address 40510

Analogous to [Chapter 6.5.1.2](#) set the parameter address as shown in [Fig. 338](#).

Select "05.53 Interface f setp. [Hz]" for A1 in AM 5519 (instead of default "Internal setp.2")

5519 AM Frequency SP2[Hz]

A1	05.53 Interface f setp [Hz]			
A2	10.01 ZERO			
C1	0			
L1	02.01 LM FALSE			
L2	02.01 LM FALSE			
Type	Pass through			

Apply
Cancel

Additionally, activate the 2nd setpoint LM 12918 whenever the EasYgen needs to go for the remote interface setpoint.

2. The second method involves writing directly to parameter "internal freq. Setpoint 1" (ID 5500) or "Int. freq. Setpoint 2" (ID 5501).

However, this method is only recommended for pre-configuring, commissioning, or maintenance.

5500 Int. freq. control setpoint 1	51,00	Hz
5501 Int. freq. control setpoint 2	50,00	Hz

Important, when writing parameters directly by interface:

By default, the interfaces are write protected. You can configure it ON or OFF in the easYgen.

If it is actually ON, you first must write the log-in data through Modbus/-TCP/-RTU

See manual:

*** Set easYgen-XT to code level CL05 via Modbus TCP**

With factory settings username is expected to be "CL05" and password to be "CL0500" for code level CL05. With setting the Code Level all five communication channels (sockets) are released.

⚙️	1. ▷ Write and transfer »CL05« as hex: 43-4C-30-35-00 for "User name" to parameter ➡ 7490 (40 bytes). 2. ▷ Write and transfer »CL0500« as hex: 43-4C-30-35-30-30-00 for "Password" to parameter 7491 (40 bytes). ▶ Code level can be read with parameter 10427
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The password level is visible in the Ethernet interface diagnostic screen.

Password handling via Modbus using RS-485 connection

The easYgen must be a member of a RS-485 network and the password has to be transferred (from PLC) to the device.

*** Set easYgen-XT to code level 5 via Modbus RS-485**

With factory settings the password is expected to be "500" for code level 5.

- Modbus address = $400000 + (\text{Par. ID} + 1) = 410431$
- Modbus length = 1 (UNSIGNED 16)

Code level state can be read with parameter 10420.
Please find the password level in Toolkit: [STATUS MENU / Diagnostic/Interfaces / RS485].