

Title: How to use HMIGXU communication with Lxm26 via Modbus

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Apply to:

Vijeo Designer Basic V1.0.0.680

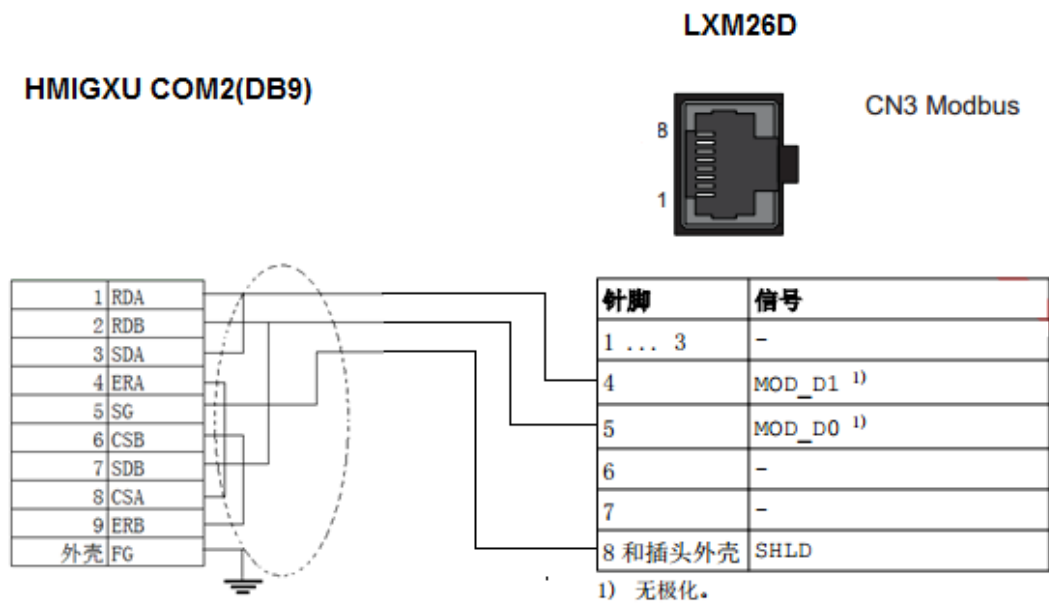
GXU5512, LXM26D

Summary:

This document will show you how to build communication between HMIGXU and Lxm26 via Modbus, then you will get access to parameter menu in Lxm26.

Solution:

- 1. Connect Cable



- 2. Make sure both GXU5512 and Lxm26 have the same Modbus communication settings.
GXU5512:

Manufacturer:	Schneider Electric Industries SAS	Driver:	Modbus (RTU)
COM Port	COM2	Parity Bit	Even
Serial Interface	RS-485	Stop Bit	1
Flow Control	None	Data Length	8
Transmission Speed	19200	Rcv. Time Out	3 Sec
Retry Count	2	TX Wait Time	3 mSec
		Default value	☒

LXM26:

P3-00 = 0x0002

P3-01 = 0x0402

P3-02 = 0x0007

3. Inside the VJD_Basic, Configure the GXU5512 as the master, and parameter "Double Word word order" should be "High word first".

Equipment Configuration

Equipment Address

Slave Equipment Address: Dec

Communication Optimization

Preferred Frame Length: bytes

☒ IEC61131 Syntax

Addressing Mode:

Variables

Double Word word order:

ASCII Display byte order:

OK Cancel Help

4. Address Calculation

For LXM26: $Pm-n \rightarrow m \cdot 16\#100 + n \cdot 2 + 16\#100$

For example, if you want to access to parameter: "P3_06" in Lxm26,
Then you will get this address Hex: $3 \cdot 16\#100 + 6 \cdot 2 + 16\#100 = 16\#40C$,
It equals to Dec: 10#1036.

So you should configure "Device Address" as "%MW1036" for the variable.

Name	Data Type	Data Source	Scan Group	Device Address
 P0_00_lxm26	DINT	External	ModbusEqui...	%MW256
 P0_01_lxm26	DINT	External	ModbusEqui...	%MW258
 P3_06_lxm26	DINT	External	ModbusEqui...	%MW1036