

Advantech AE Technical Share Document

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Category	■FAQ □ SOP	Related OS	N/A
Abstract	ADAM 6XXX, How to send Modbus TCP command by using ADAM Utility?		
Keyword	ADAM 6XXX, Modbus TCP, Utility, command, hexadecimal data		
Related Product	ADAM6XXX		

■ Problem Description:

ADAM 6000 and ADAM 6200 series support Modbus TCP. Can user send Modbus TCP command to get other module information like module name by using ADAM Utility?

■ Answer:

We can use **Adam commander** to send Modbus TCP command in ADAM Utility.

There is a “**Hexadecimal Data**” setting page in Adam commander. We can enter Modbus TCP command in command column as shown in *Figure 1*.

Below is an example for request module name of ADAM 6050 CE. Modbus Address 40211 is reserved for module name data, so we have to send *Read the Module Name from Modbus address 40211* to ADAM module.

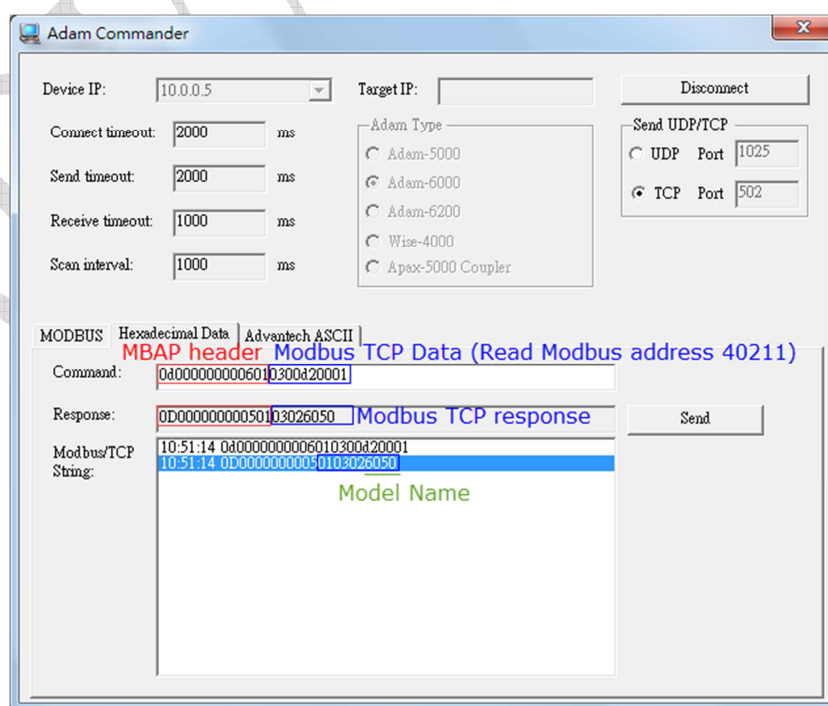


Figure 1 Sending Modbus TCP command

Since a complete Modbus TCP command have MBAP header and Modbus TCP data.

User need to enter 7 byte of header as shown in Figure 2, and then enter the Modbus command.

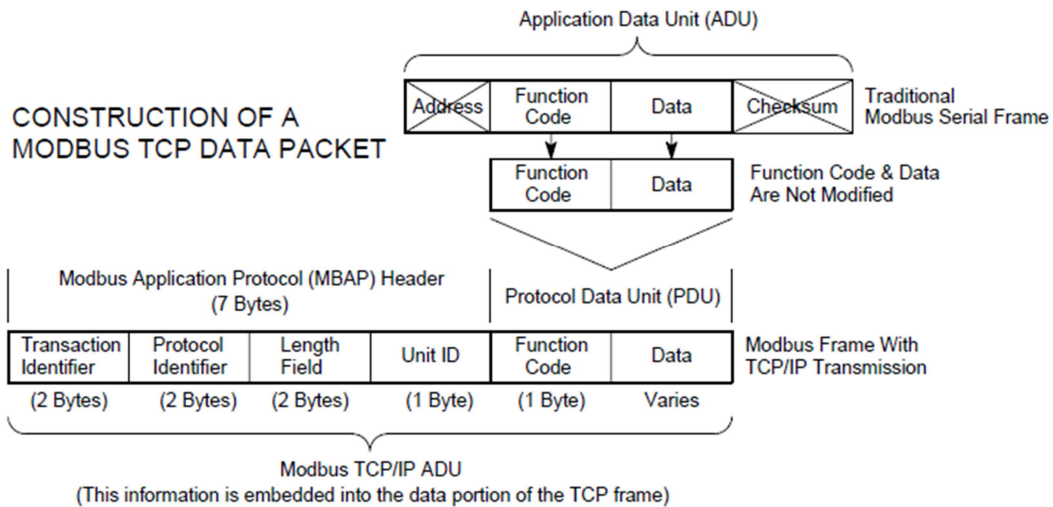


Figure 2 Modbus TCP packet structure

That's why we enter the command string as below which also shown in Figure 1.

Transaction Identifier	Protocol Identifier	Command length	Unit ID	FC	Start address	# of register request
0d	00	00 00	00 06	01	03 00 D2	00 01

By the way, user can also use “**Modbus**” or “**Advantech ASCII**” menu in ADAM commander to request module name of the module, which will be easier. See below Figure 3 and Figure 4.

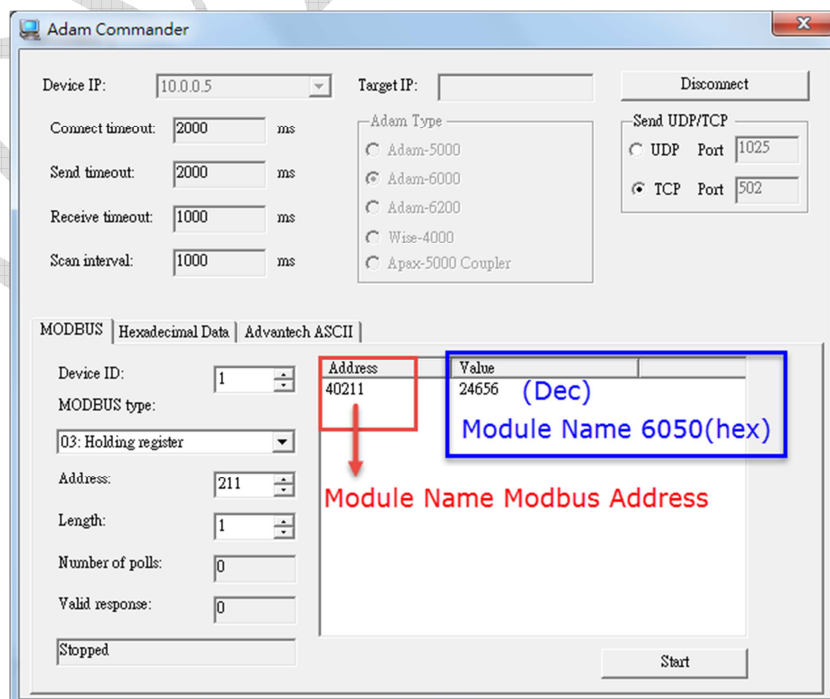


Figure 3 Sending Modbus TCP command

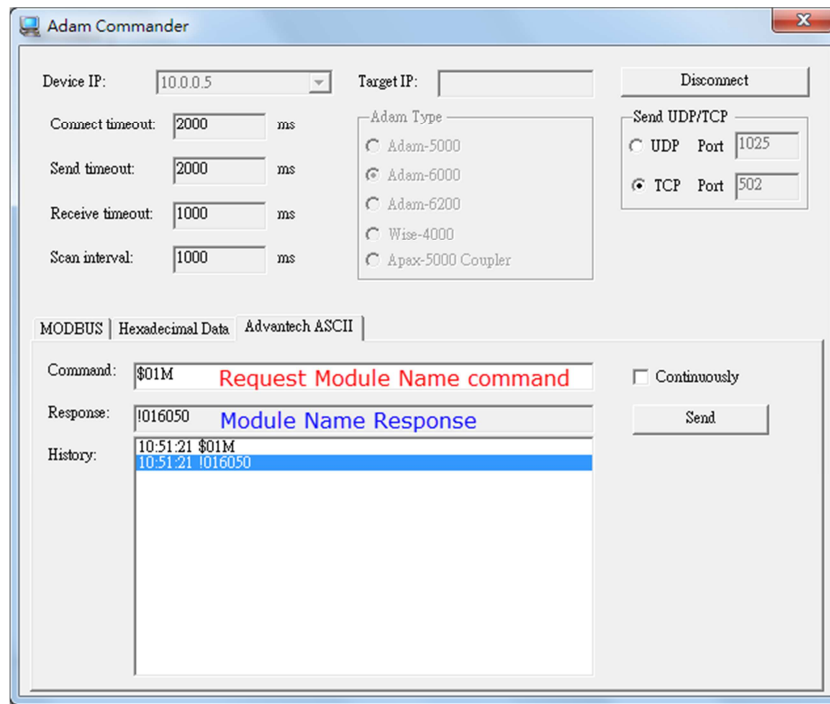


Figure 4 Sending Advantech ASCII command