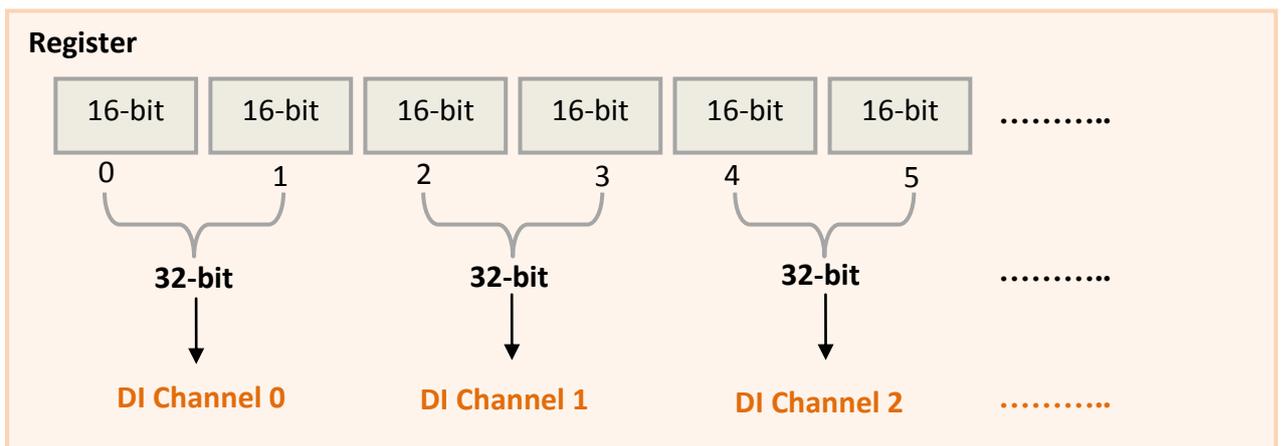


## Q. How do I read DI Counter for the PETL/tET/tPET Series Modules correctly?

A: If your software shows wrong value of DI Counter for the PETL/tET/tPET series module, verify that the related parameters on your software are correct, as follows:

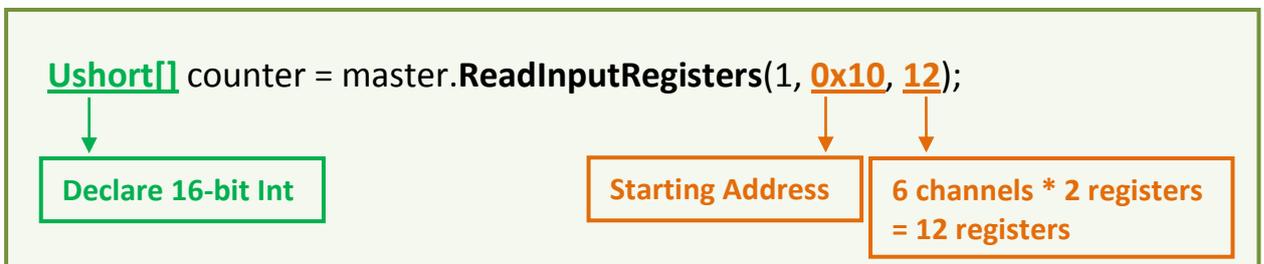
The DI Counter records data as 32-bit value and is transmitted as two 16-bit registers. Consequently, the register address has an offset of 2, i.e., the address of the second channel will be at starting-address + 2, and so on.

### DI Counter



Example: Reading the values for 6 DI Counters on a tPET-P6 module.

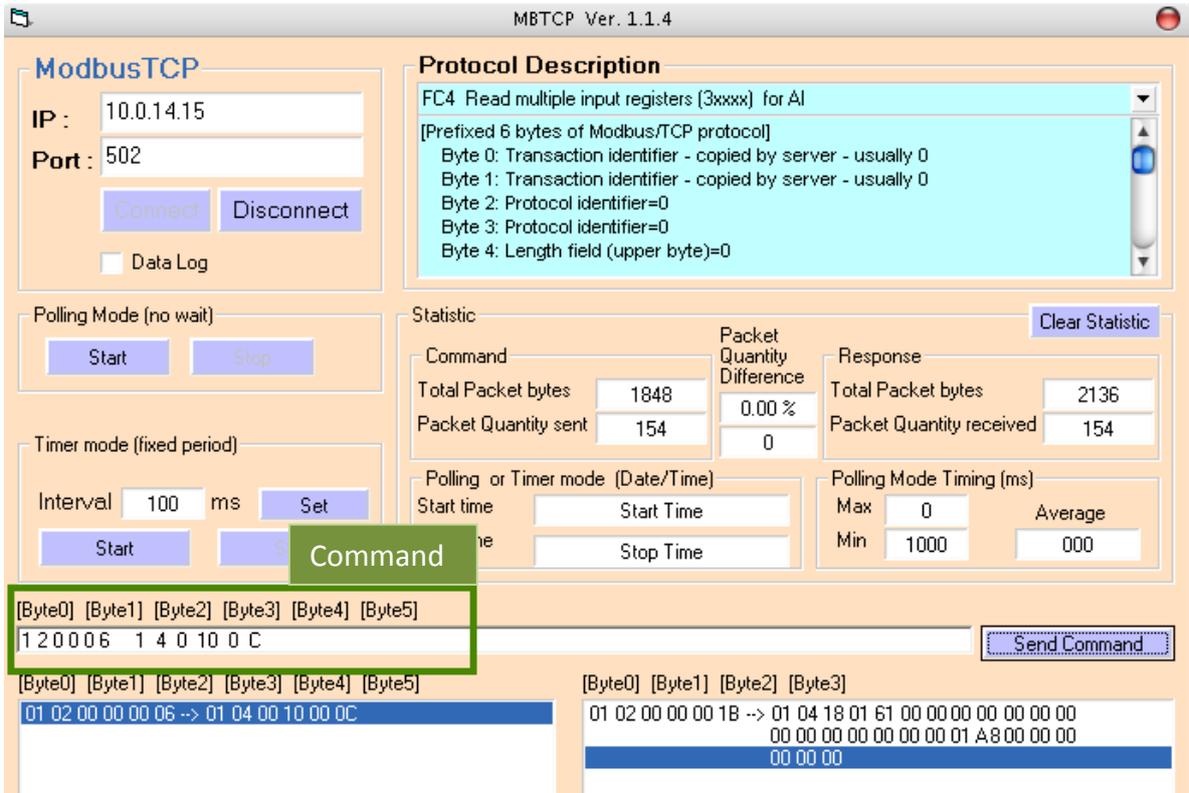
Using the API of nModbus:



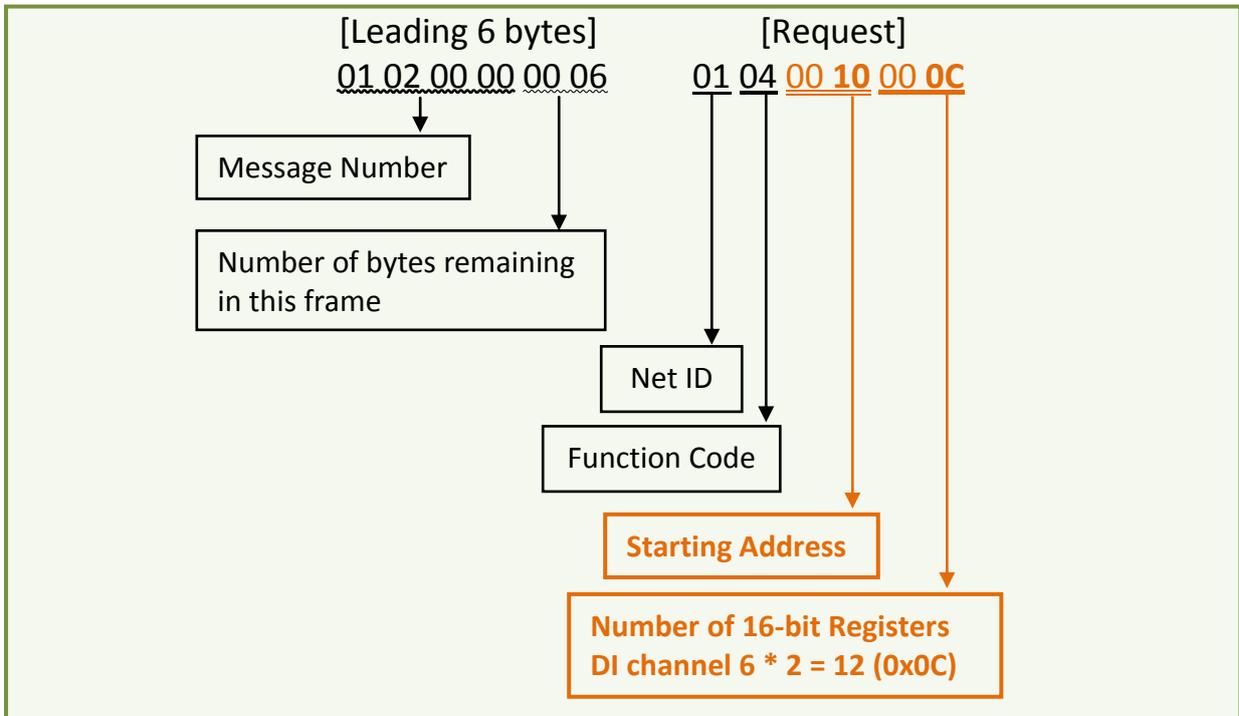
For more detailed information about the starting address, channels, and declared length parameters, etc., refer to the Modbus Register Table in the section 6.3 of the user manual for the PETL/tET/tPET series, which can be downloaded from:

<http://ftp.icpdas.com/pub/cd/tinymodules/napdos/tpet/document/>

## Using the Modbus Command:



### Command Format:



For more detailed information about the starting address, channels, declared length parameters, etc., refer to the Modbus Register Table in section 6.3 of the user manual for the PETL/tET/tPET series, which can be downloaded from:

<http://ftp.icpdas.com/pub/cd/tinymodules/napdos/tpet/document/>

## Response Format:

The screenshot shows the MBTCP Ver. 1.1.4 interface. On the left, the ModbusTCP configuration includes IP (10.0.14.15), Port (502), and buttons for Connect, Disconnect, and Data Log. The Protocol Description shows 'FC4 Read multiple input registers (3xxxx) for AI'. The Statistics section shows Command (Total Packet bytes: 1848, Packet Quantity sent: 154) and Response (Total Packet bytes: 2136, Packet Quantity received: 154). The Timer mode is set to 100 ms. The bottom section displays a hex dump of the response packet: [Byte0] [Byte1] [Byte2] [Byte3] [Byte4] [Byte5] 1 2 0 0 6 1 4 0 10 0 C. A green box highlights the response data: [Byte0] [Byte1] [Byte2] [Byte3] 01 02 00 00 00 06 --> 01 04 18 01 61 00 00 00 00 00 00 00 00 00 00 01 A8 00 00 00 00 00 00.

## Response:

