



Finger Print AccessControl System

Example of User Details for Finger Print Enrollment:

The screenshot shows a web application window titled "Access Control System". It has a menu bar with "View Log", "User Management", "Settings", "Modbus Settings", "Factory Settings", and "Debug". The "User Management" section is active. It displays "Total Number of Registration : 1". Below this, there are two main sections: "User Details" and "Enroll".

User Details:

- User ID: RDL (dropdown menu)
- Name: 1023 (text input)
- ID: RDL (text input)
- Level: 1 (dropdown menu)
- Dept: ABCD (text input)
- Buttons: Delete (green)

Enroll:

- ID: RDL (text input)
- Name: 1023 (text input)
- Level: 1 (dropdown menu)
- Dept: ABCD (text input)
- Buttons: Enroll (green) with a green checkmark icon

Powered By : RDL Technologies Pvt. Ltd.

Total Number of Registration: Shows the number of registrations done.

Enroll

User ID: takes only number and letters, special character not accepted, Length: 8 bytes

Name: Enter name, Length max: 20 bytes

Note: displays only 16 byte in display.

Level: Length max: up to 5 levels accepted

Department: max length: 20 bytes

Note:

1. Users cannot use same user id's

User details

If enrollment is completed

Select user ids from the list by clicking on the down arrow in User id block, Respective name, level and department appear.

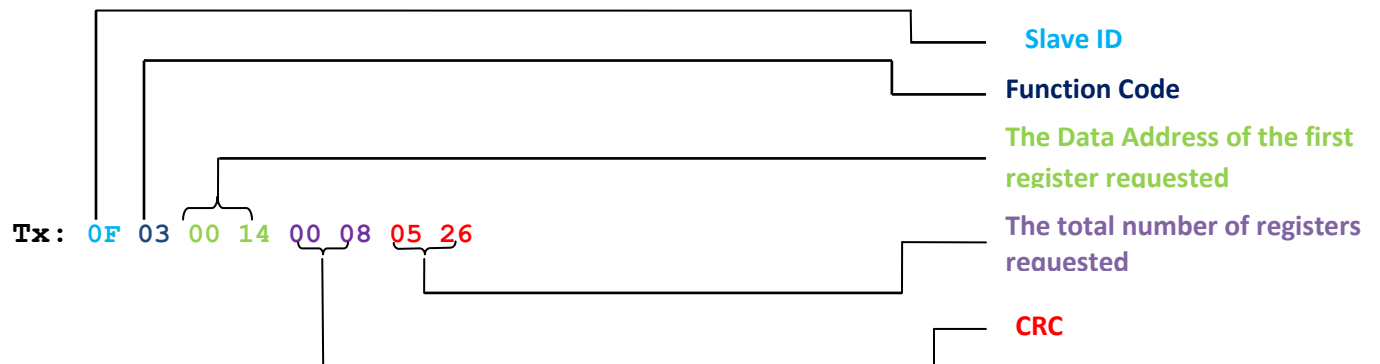
Delete

Deletes the enrolled details.

1. MODBUS RTU (SLAVE)

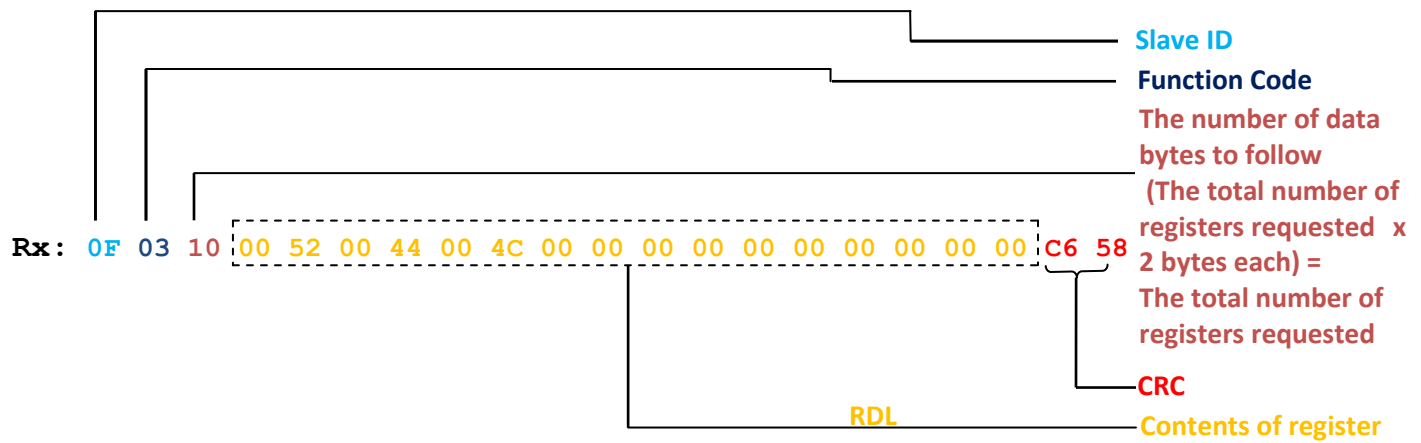
The screenshot shows the 'Modbus Settings' window of an 'Access Control System'. It has tabs for 'View Log', 'User Management', 'Settings', 'Modbus Settings', 'Factory Settings', and 'Debug'. The 'Modbus Type' is set to 'Modbus RTU'. The 'Mode(RTU)' is set to 'Slave'. The 'Slave ID' is 15. The 'Comport Settings' are: Baud Rate: 9600, Data Bit: 8 bit, Parity: None, Stop Bit: 1 Bit. The 'Register' settings are: Name: 10, ID: 20, Level: 30, Dept: 40, Date Time: 50. There are 'Save' and 'Read' buttons for each section, with green checkmarks indicating successful operations. A note at the top right says 'Note: Write Holding Register Function Code (FC 03)'. The footer says 'Powered By : RDL Technologies Pvt. Ltd.'

1.1 Modbus RTU data format to transfer ID information (Slave)



Note:

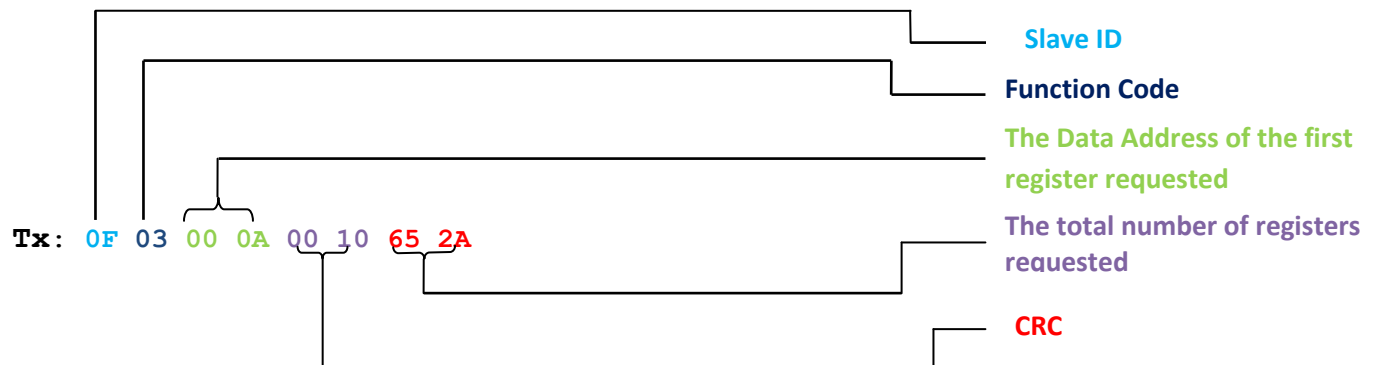
1. All the above Data are hexadecimal values.
2. Function Code 0x03 is for Read Register.



Note:

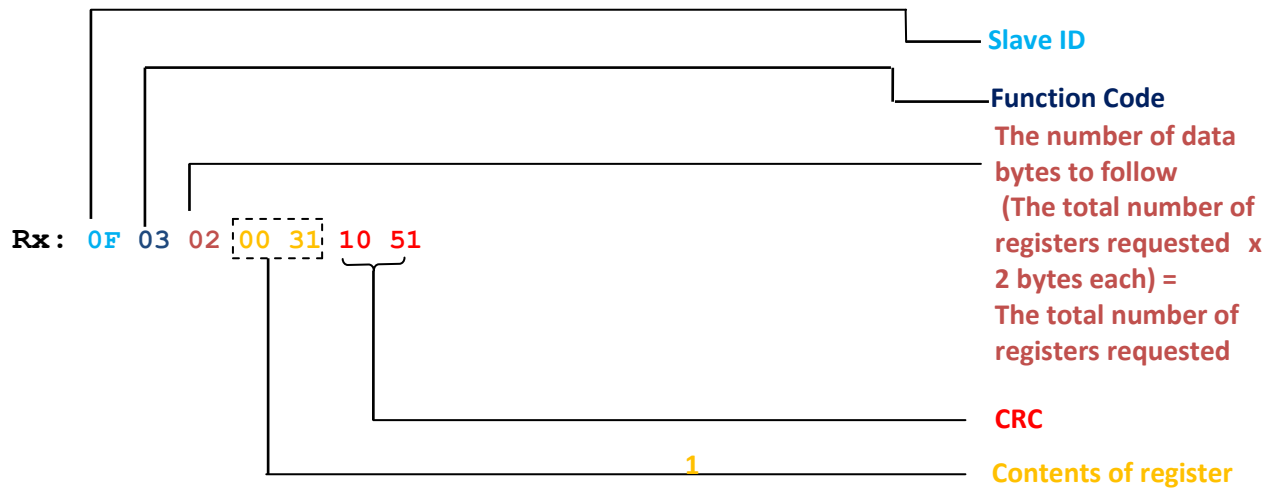
1. **Hexadecimal** = 0x00 52, 0x00 44, 0x00 4C **Decimal** = 82, 68, 76 **ASCII** = RDL.
2. All the above Data are hexadecimal values.
3. Function Code 0x03 is for Read Register.

1.2 Modbus RTU data format to transfer Name information (Slave)



Note:

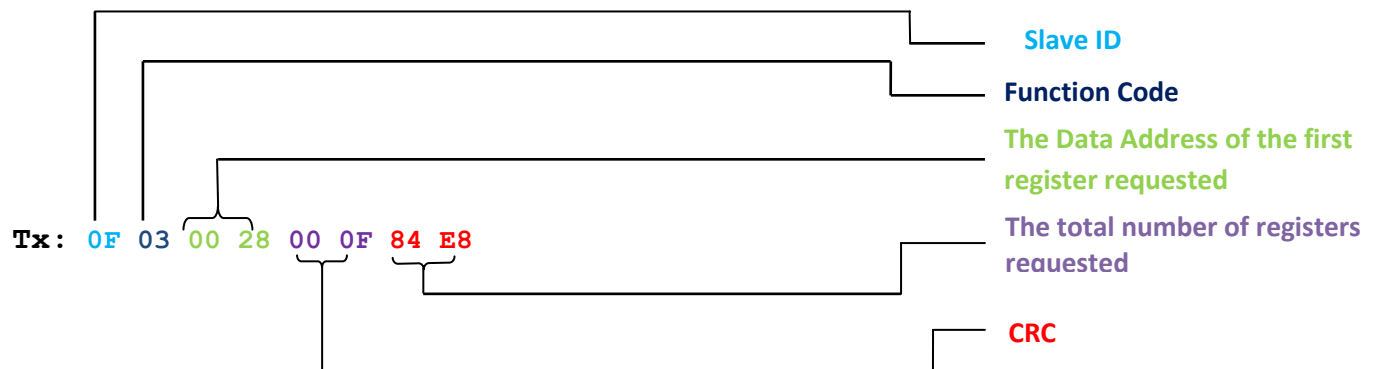
1. All the above Data are hexadecimal values.
2. Function Code 0x03 is for Read Register.



Note:

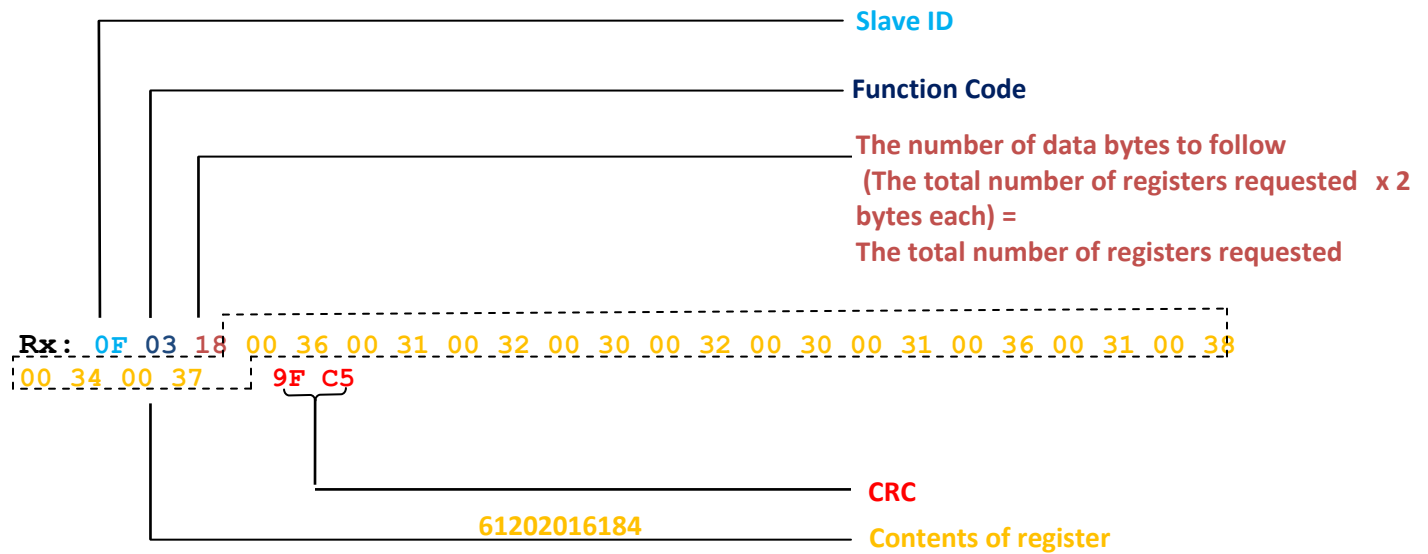
1. **Hexadecimal** = 0x00 31 **Decimal** = 49 **ASCII** = 1.
2. All the above Data are hexadecimal values.
3. Function Code 0x03 is for Read Register.

1.4 Modbus RTU data format to transfer Department information (Slave):



Note:

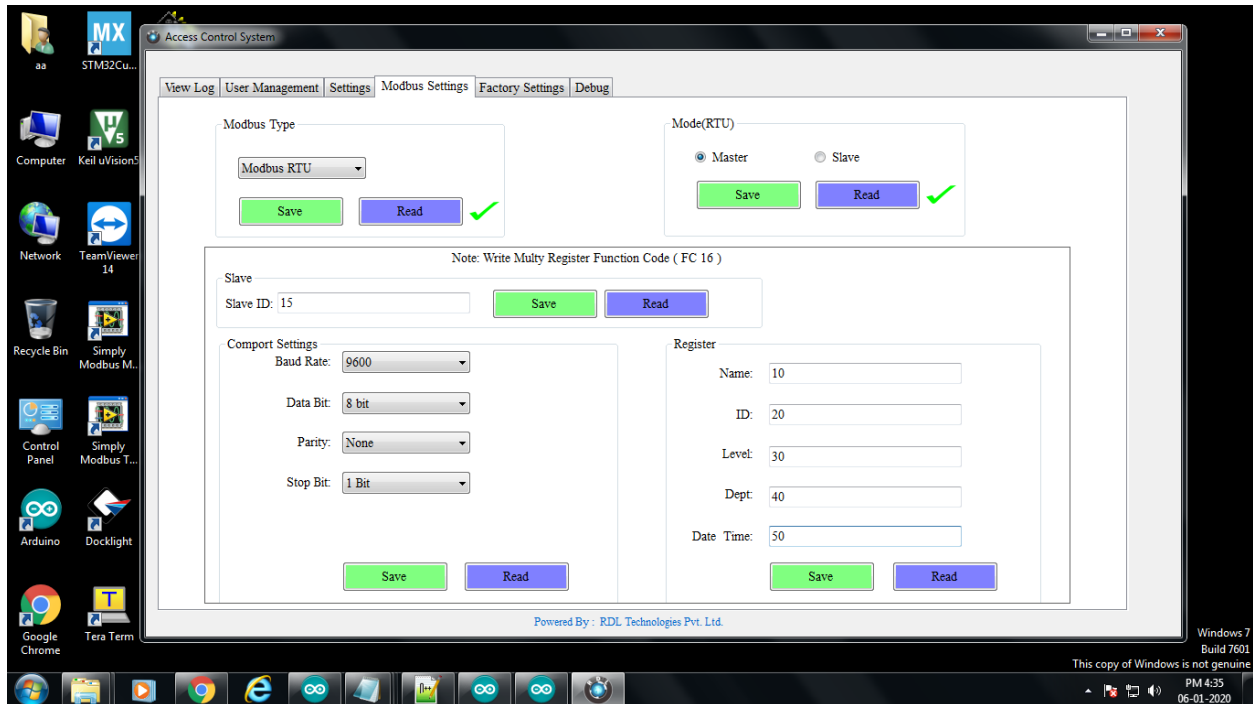
1. All the above Data are hexadecimal values.
2. Function Code 0x03 is for Read Register.



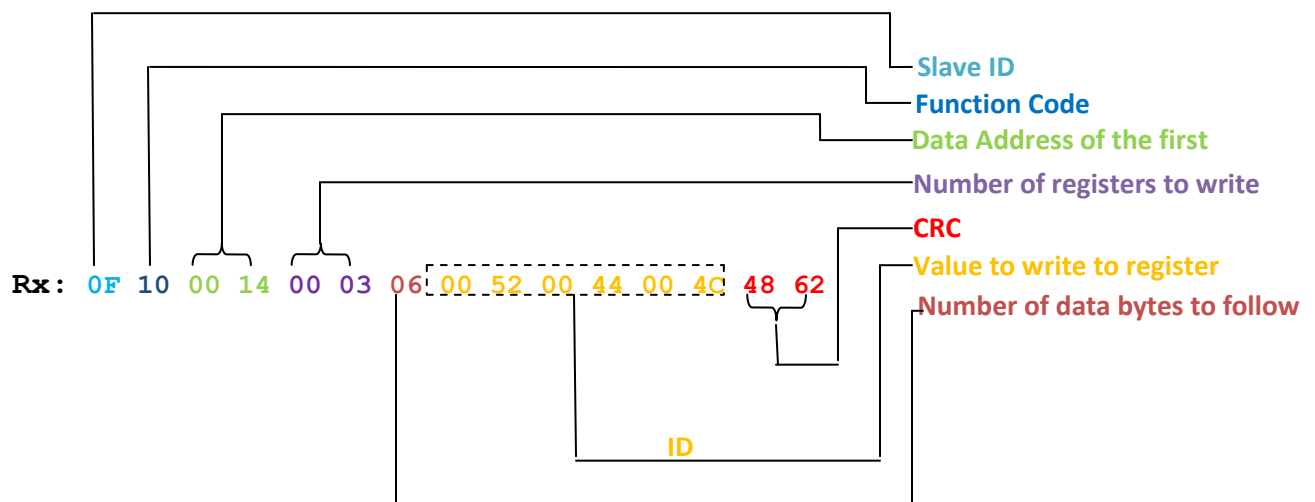
Note:

1. **Hexadecimal** = 0x00 36 0x00 31 0x00 32 0x00 30 0x00 32 0x00 30 0x00 31 0x00 36 0x00 31 0x00 38 0x00 34 0x00 37 **Decimal** = 54, 49, 50, 48, 50, 48, 49, 54, 49, 56, 52, 55 **ASCII** = 612020161847.
2. All the above Data are hexadecimal values.
3. Function Code 0x03 is for Read Register.

2. MODBUS RTU (MASTER):

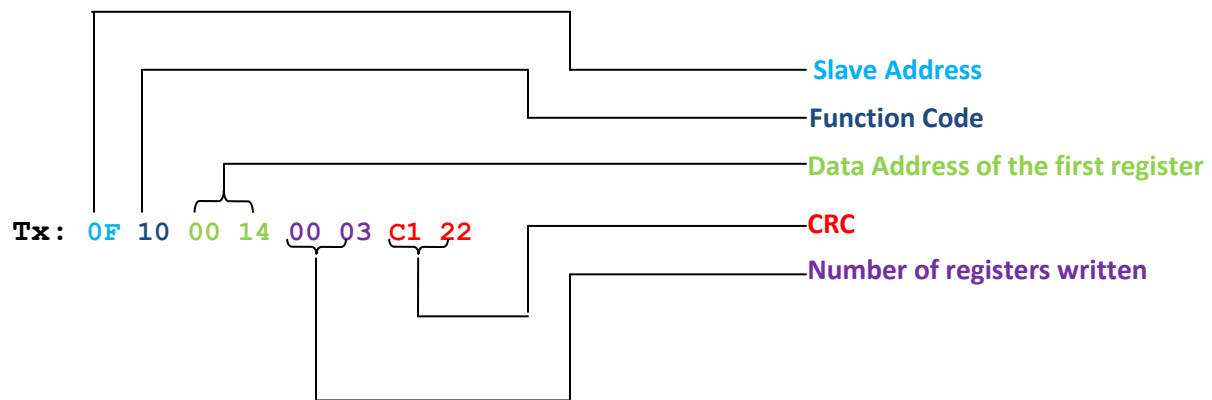


2.1 Modbus RTU data format to transfer ID information (Master):



Note:

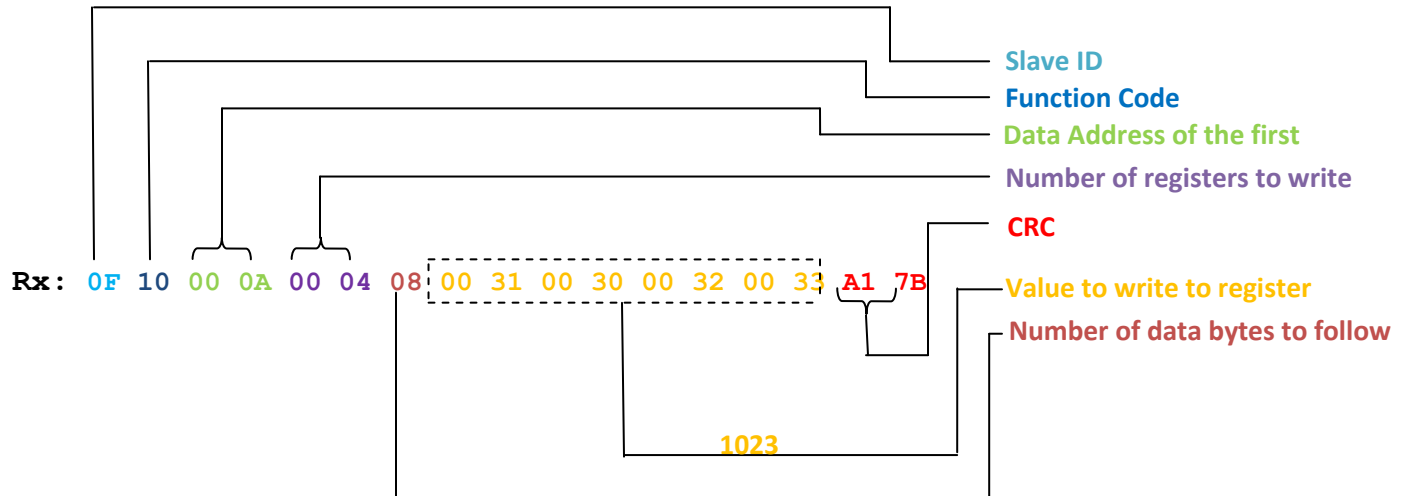
1. **Hexadecimal** = 0x00 52 0x00 44 0x00 4C **Decimal** = 82, 68, 76 **ASCII** = RDL.
2. All the above Data are hexadecimal values.
3. Function Code 0x10 is for Multiple Register.



Note:

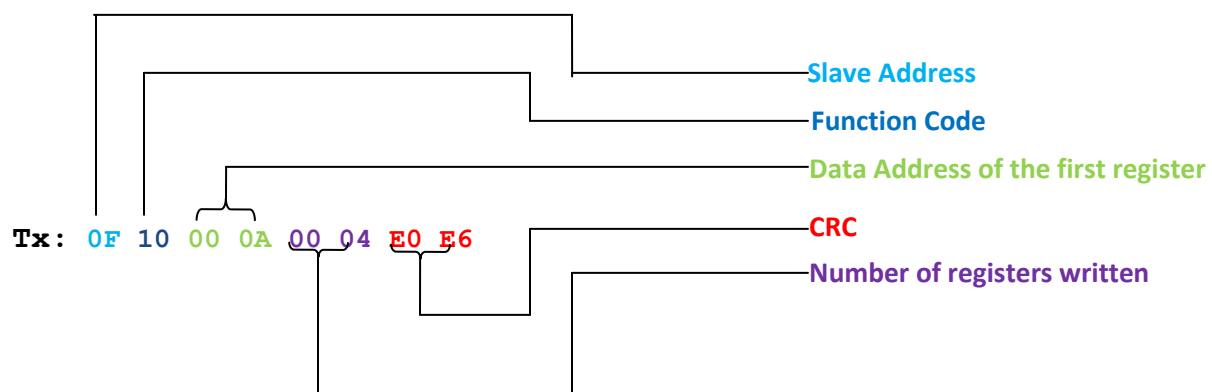
1. All the above Data are hexadecimal values .
2. Function Code 0x10 is for Multiple Register.

2.2 Modbus RTU data format to transfer Name information (Master):



Note:

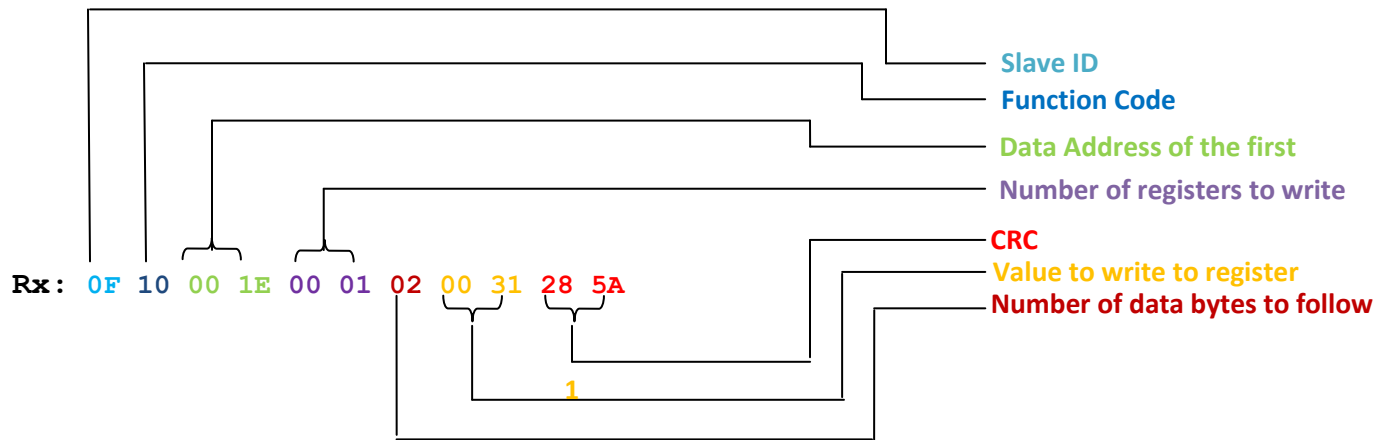
1. **Hexadecimal** = 0x00 31 0x00 30 0x00 32 0x00 33 **Decimal** = 49, 48, 50, 51 **ASCII** = 1023.
2. All the above Data are hexadecimal values.
3. Function Code 0x10 is for Multiple Register.



NOTE:

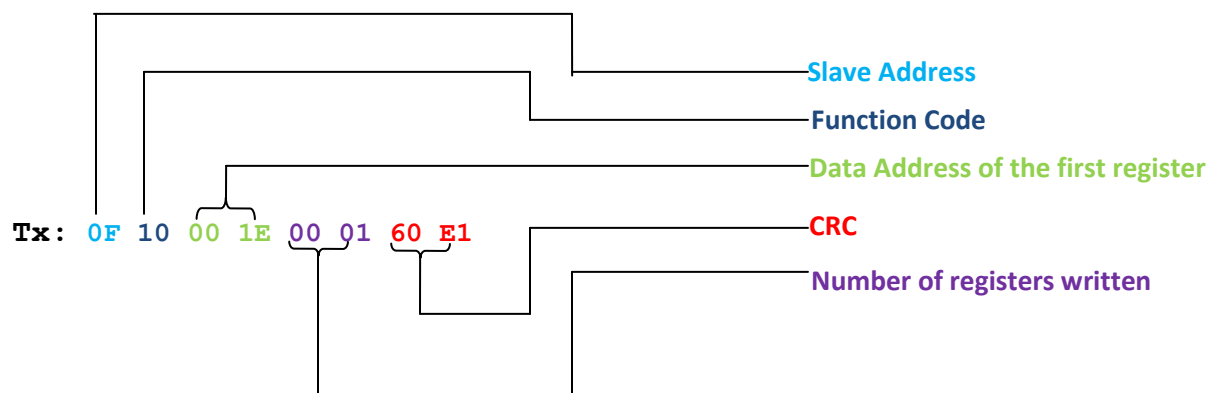
1. All the above Data are hexadecimal values.
2. Function Code 0x10 is for Multiple Register.

2.3 Modbus RTU data format to transfer Level information (Master):



Note:

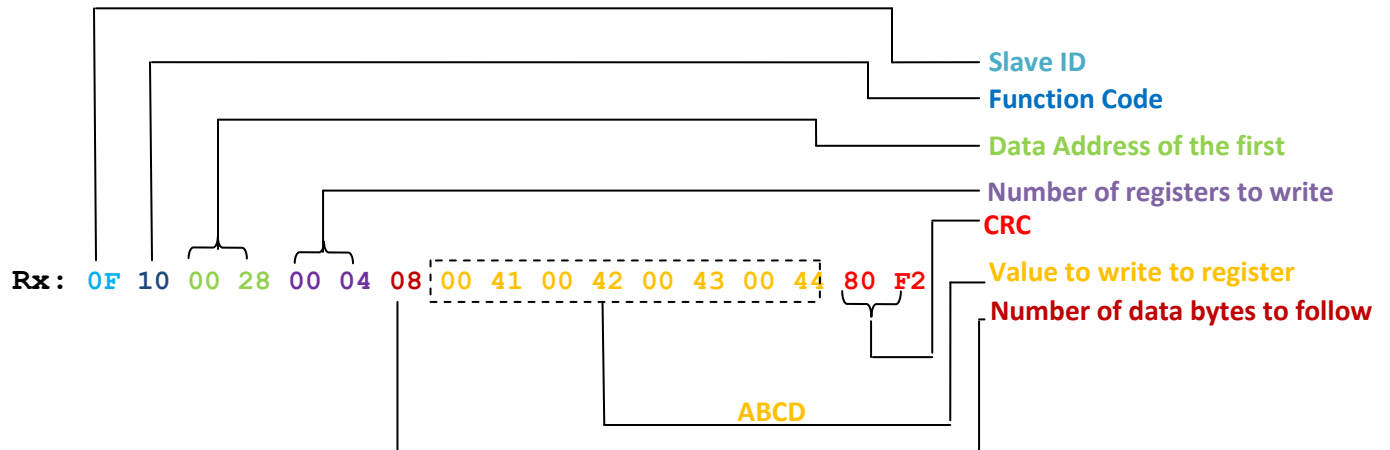
1. **Hexadecimal** = 0x00 31 **Decimal** = 49 **ASCII** = 1.
2. All the above Data are hexadecimal values.
3. Function Code 0x10 is for Multiple Register.



NOTE:

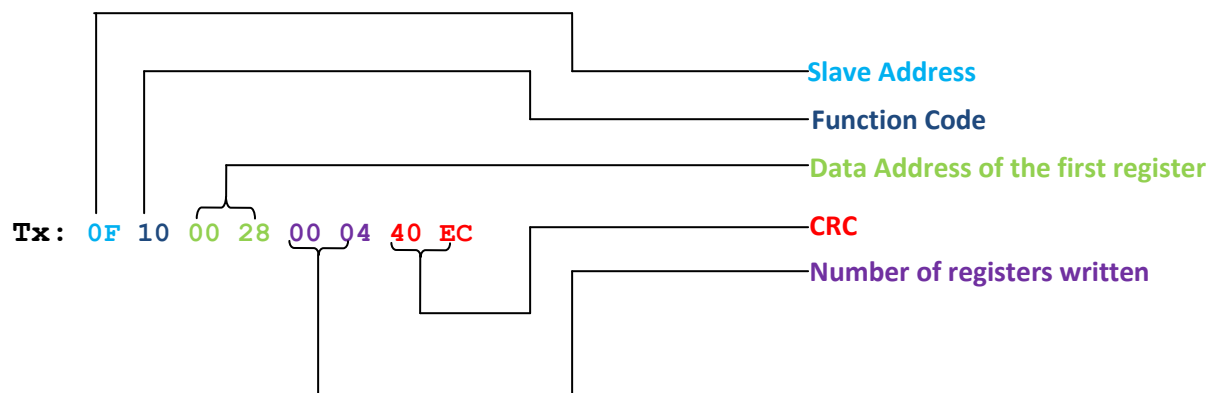
1. All the above Data are hexadecimal values.
2. Function Code 0x10 is for Multiple Register.

2.4 Modbus RTU data format to transfer Department information (Master):



Note:

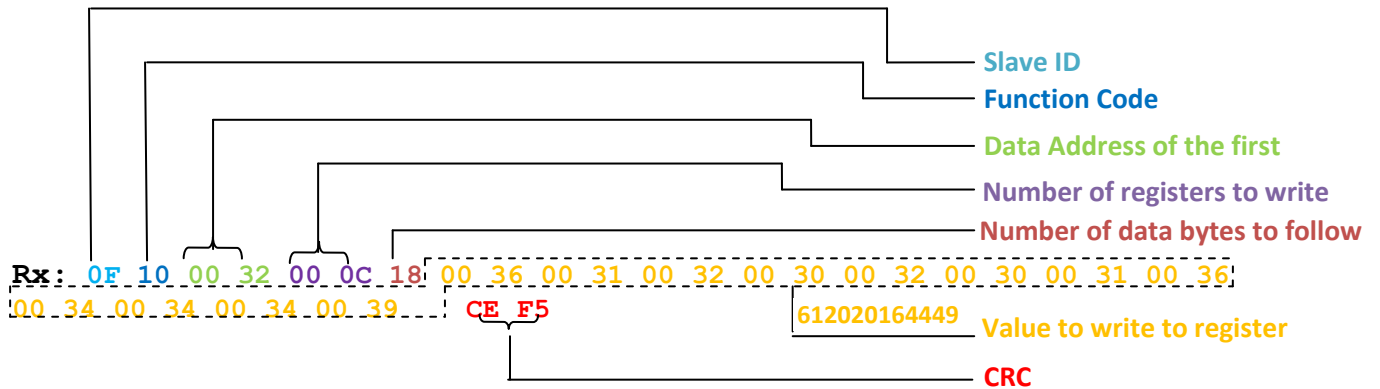
1. **Hexadecimal** = 0x00 41 0x00 42 0x00 43 0x00 44 **Decimal** = 65, 66, 67, 68 **ASCII** = ABCD.
2. All the above Data are hexadecimal values.
3. Function Code 0x10 is for Multiple Register.



NOTE:

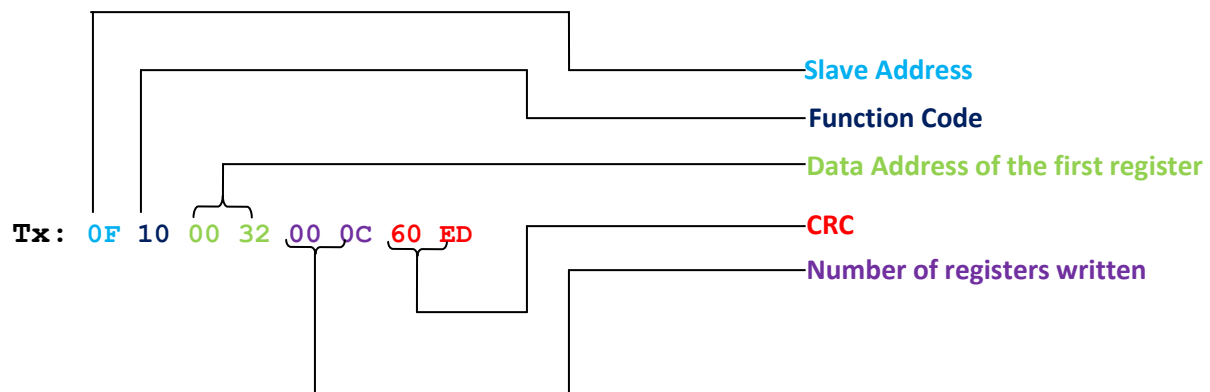
1. All the above Data are hexadecimal values.
2. Function Code 0x10 is for Multiple Register.

2.5 Modbus RTU data format to transfer Date/Time information (Master):



Note:

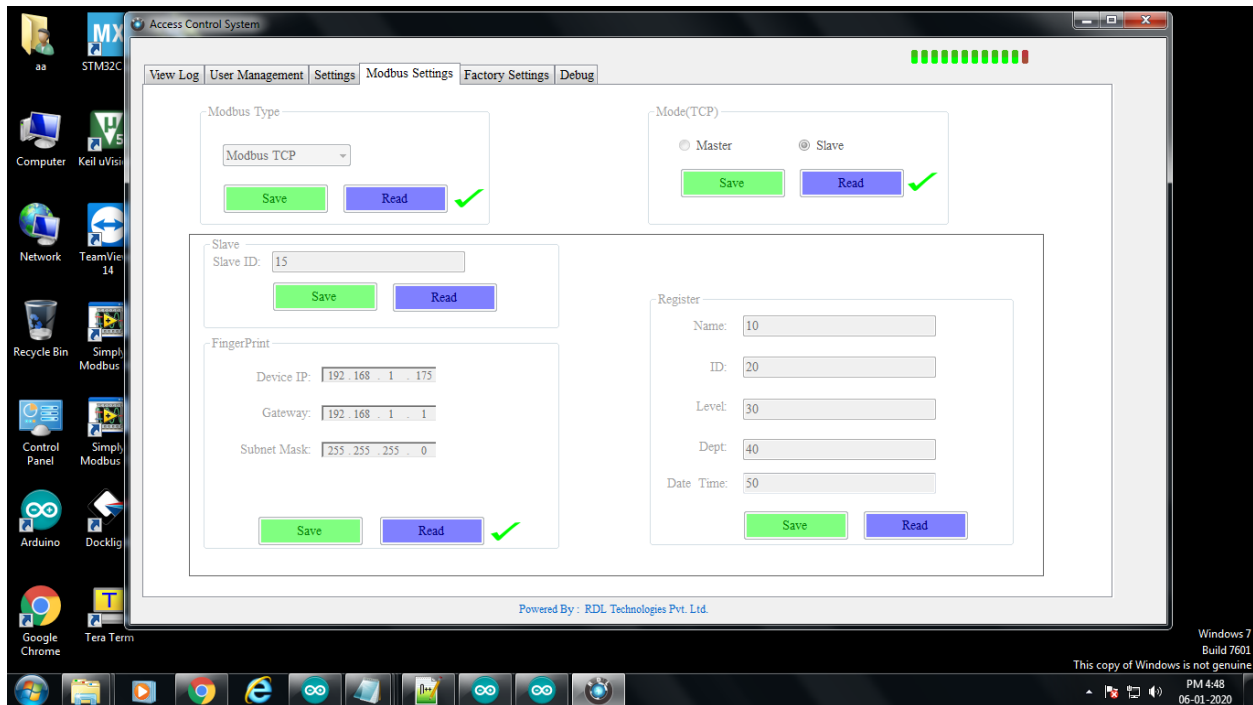
1. **Hexadecimal** = 00 36 00 31 00 32 00 30 00 32 00 30 00 31 00 36 00 34 00 34 00 34 00 39 **Decimal** = 54, 49, 50, 48, 50, 48, 49, 54, 52, 52, 52, 57 **ASCII** = 612020164449.
2. All the above Data are hexadecimal values.
3. Function Code 0x10 is for Multiple Register.



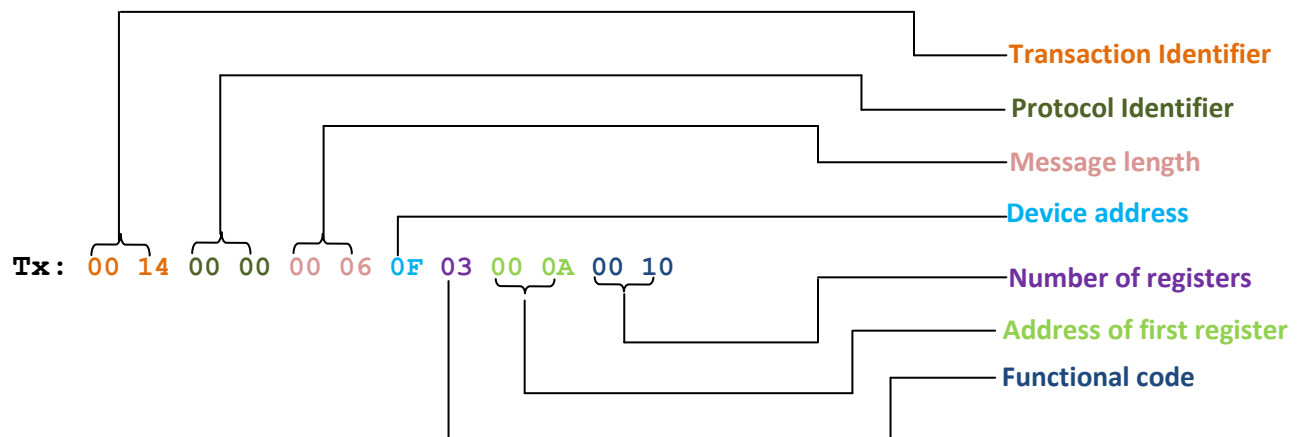
NOTE:

1. All the above Data are hexadecimal values.
2. Function Code 0x10 is for Multiple Register.

3. MODBUS TCP (SLAVE)

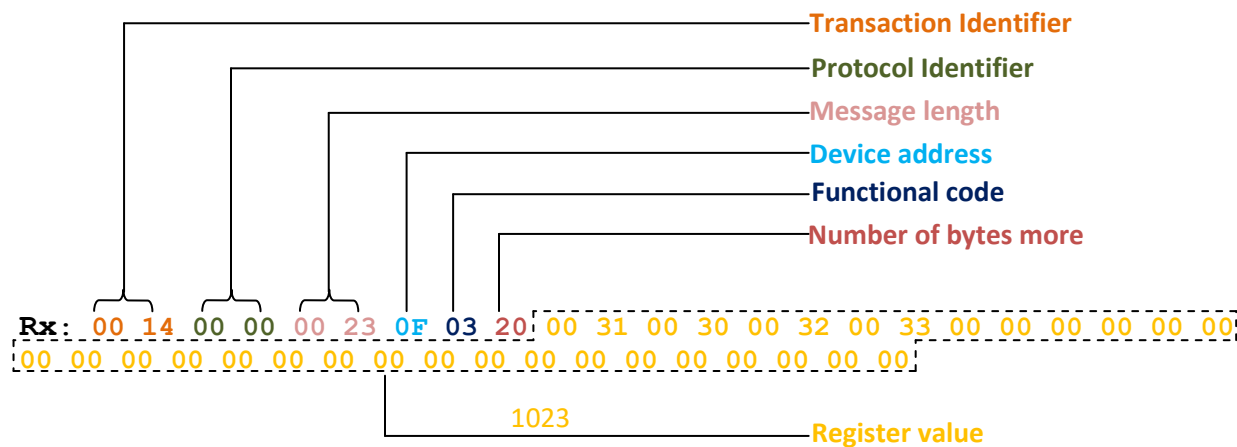


3.1 Modbus TCP data format to transfer Name information (Slave)



NOTE:

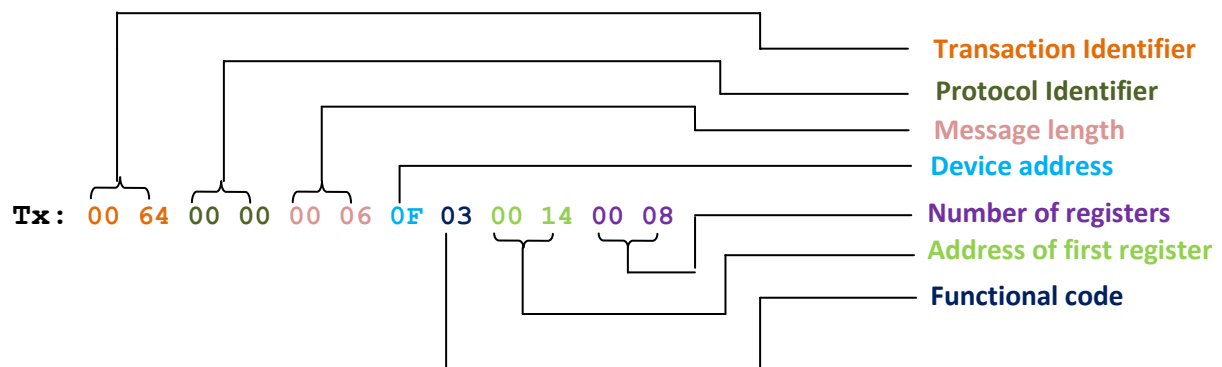
1. All the above Data are hexadecimal values.
2. Function Code 0x03 is for Read Register



Note:

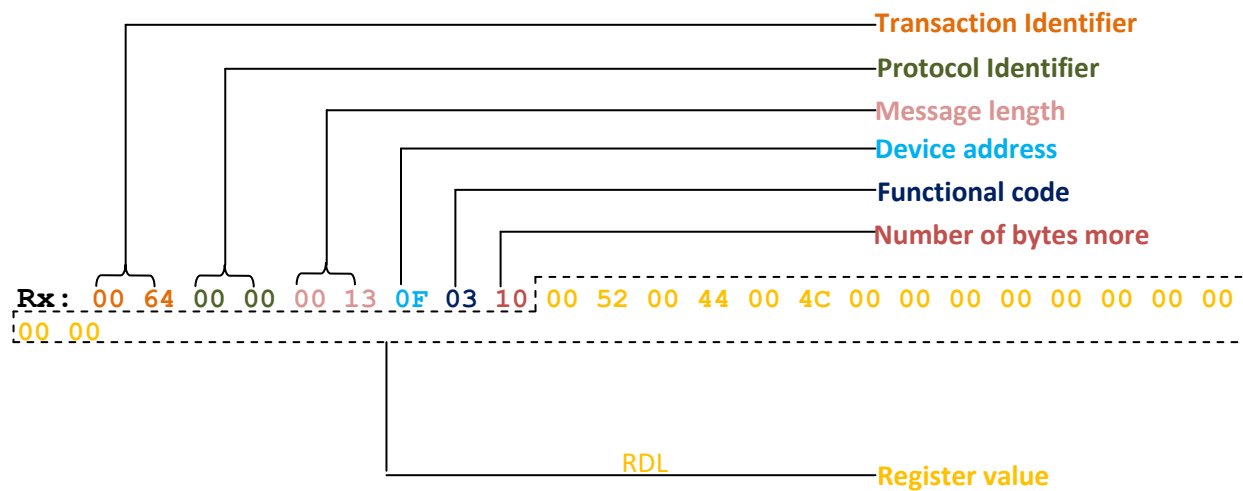
1. **Hexadecimal** = 00 31 00 30 00 32 00 33 **Decimal** = 49, 48, 50, 51 **ASCII** = 1023.
2. All the above Data are hexadecimal values.
3. Function Code 0x03 is for Read Register.

3.2 Modbus TCP data format to transfer ID information (Slave):



NOTE:

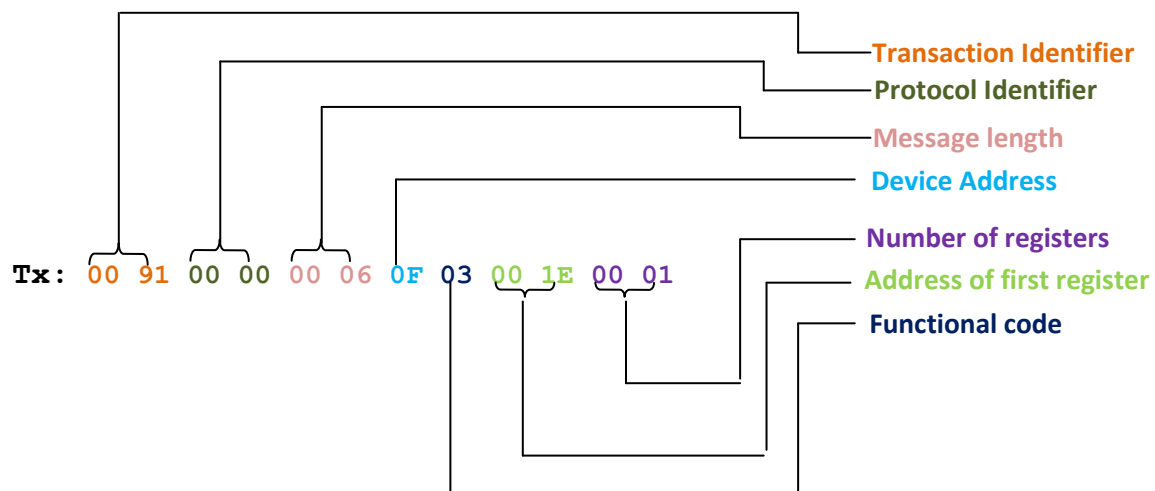
1. All the above Data are hexadecimal values.
2. Function Code 0x03 is for Read Register.



Note:

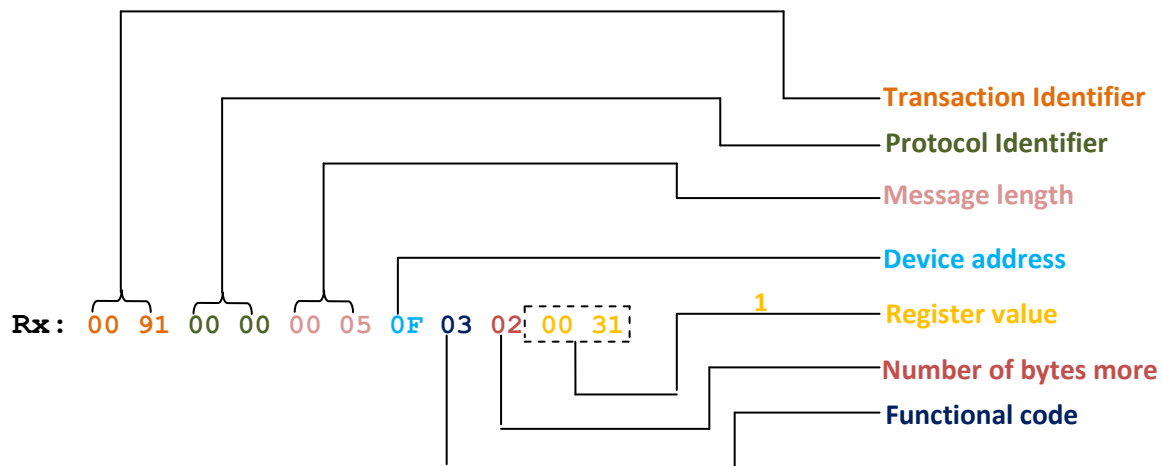
1. **Hexadecimal** = 00 52 00 44 00 4C **Decimal** = 82, 68, 76 **ASCII** = RDL.
2. All the above Data are hexadecimal values.
3. Function Code 0x03 is for Read Register.

3.3 Modbus TCP data format to transfer Level information (Slave):



NOTE:

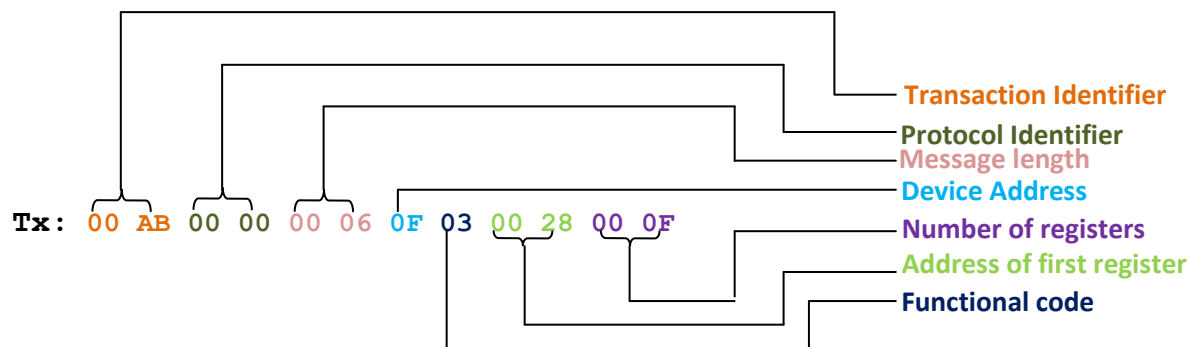
1. All the above Data are hexadecimal values.
2. Function Code 0x03 is for Read Register.



Note:

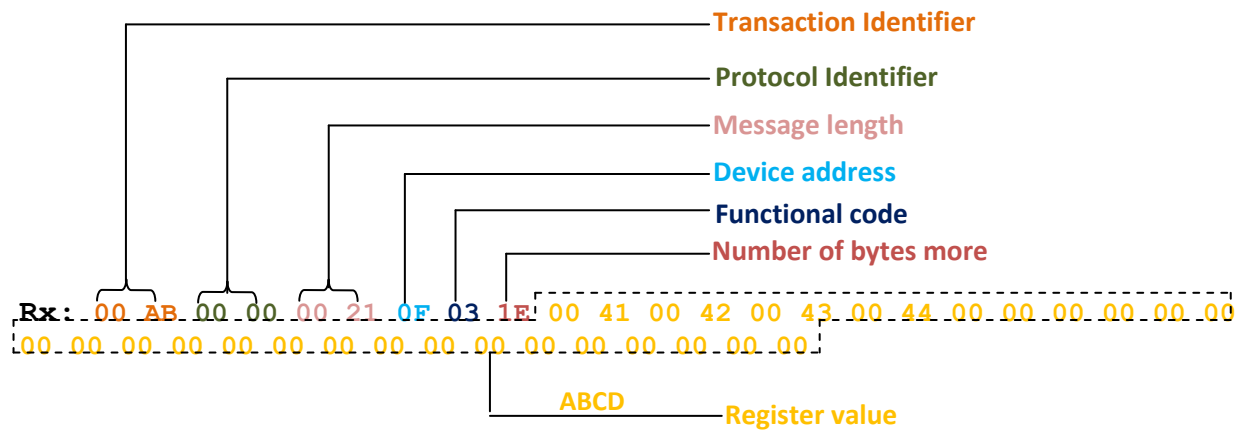
1. Hexadecimal = 00 31 Decimal = 49 ASCII = 1.
2. All the above Data are hexadecimal values
3. Function Code 0x03 is for Read Register.

3.4 Modbus TCP data format to transfer Department information (Slave):



NOTE:

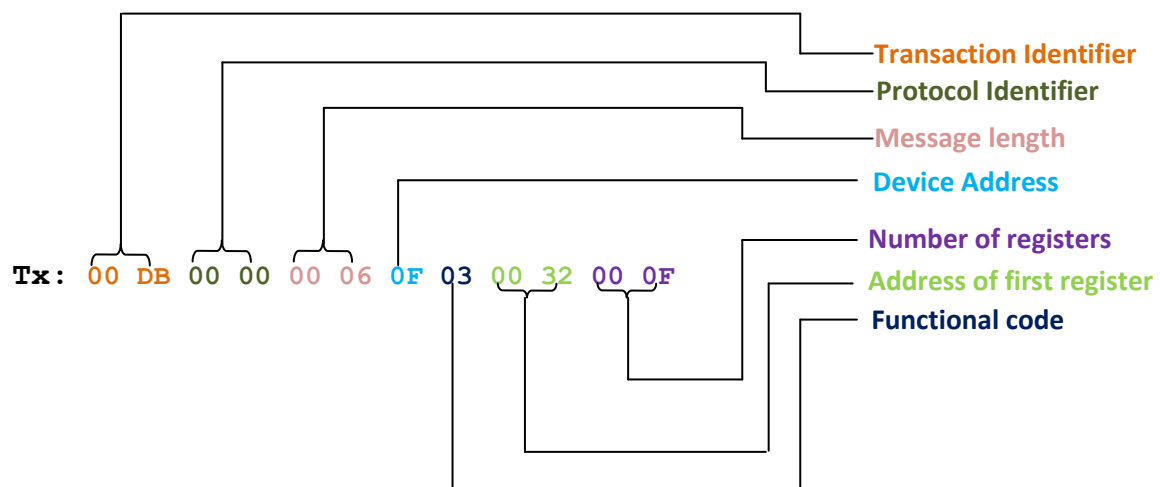
1. All the above Data are hexadecimal values.
2. Function Code `0x03` is for Read Register.



Note:

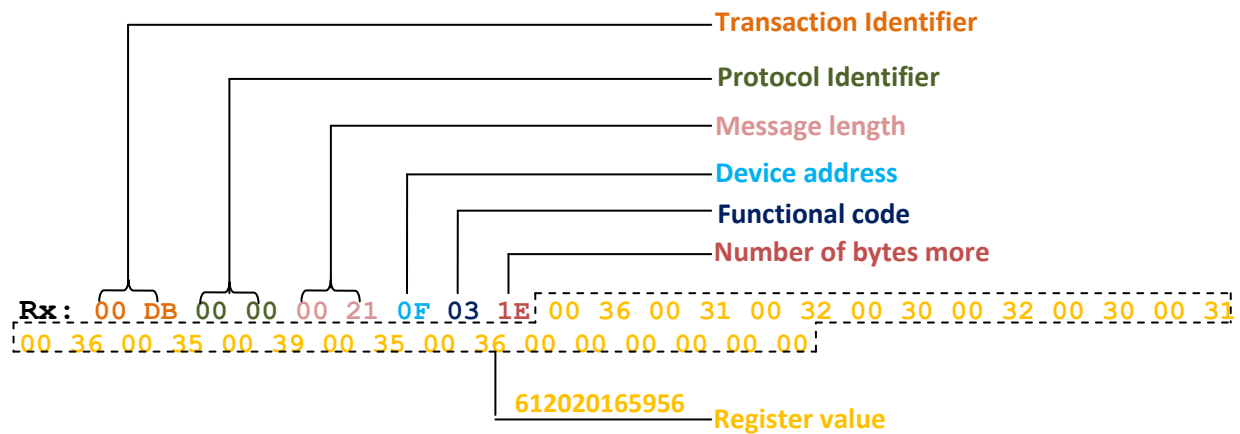
1. **Hexadecimal** = 00 41 00 42 00 43 00 44 **Decimal** = 65, 66, 67, 68 **ASCII** = ABCD.
2. All the above Data are hexadecimal values.
3. Function Code 0x03 is for Read Register.

3.5 Modbus TCP data format to transfer Date/Time information (Slave):



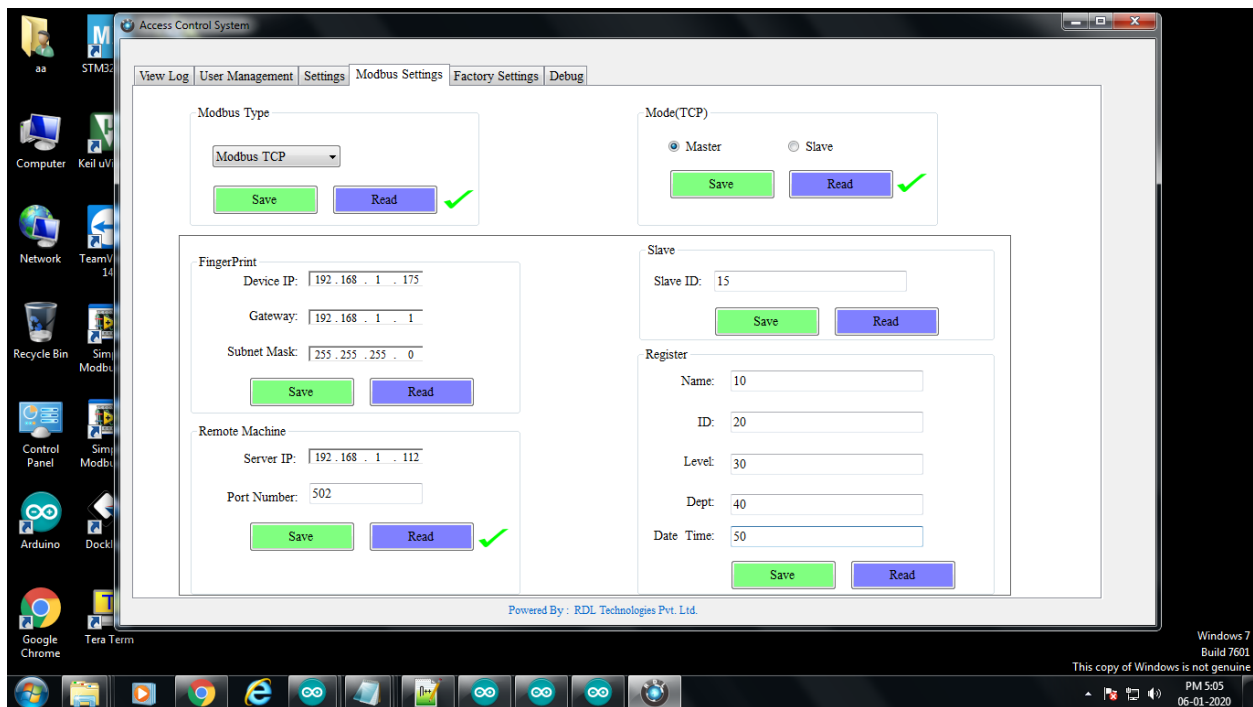
NOTE:

1. All the above Data are hexadecimal values.
2. Function Code 0x03 is for Read Register.

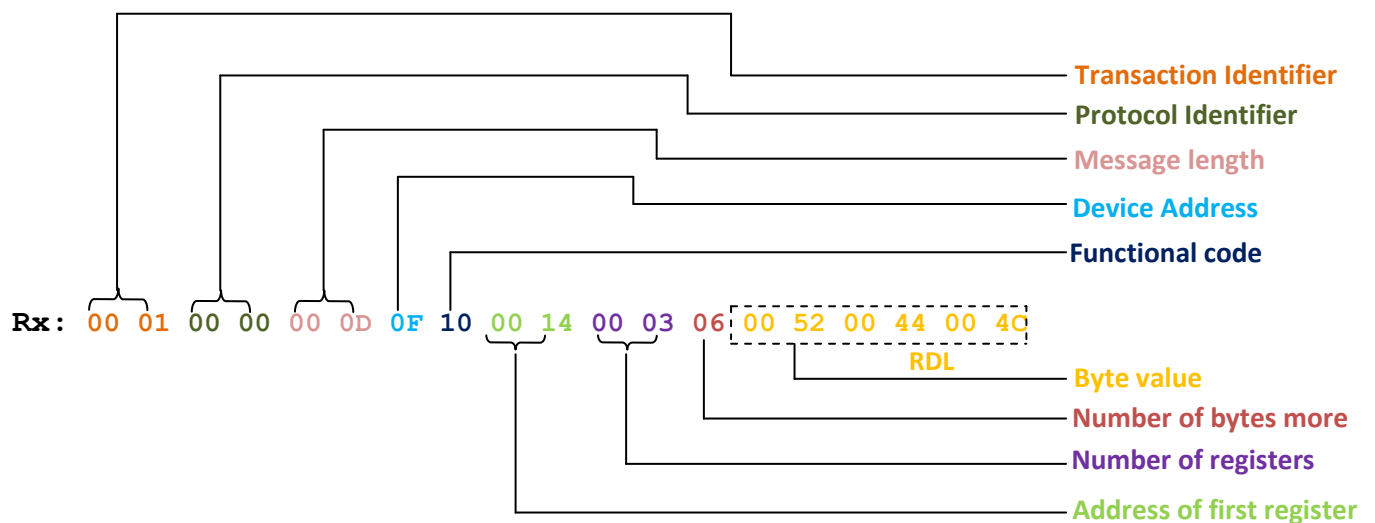


Note:

1. **Hexadecimal = Decimal = 54, 49, 50, 48, 50, 48, 49, 54, 53, 57, 53, 54 ASCII = 612020165956.**
2. All the above Data are hexadecimal values.
3. Function Code 0x03 is for Read Register.

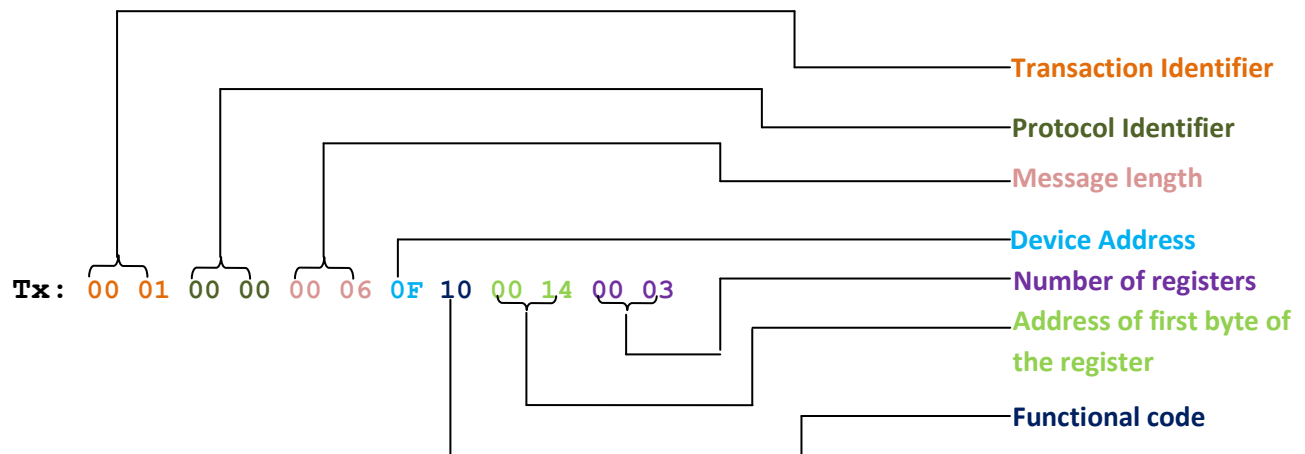


3.5 Modbus TCP data format to transfer ID information (Master):



Note:

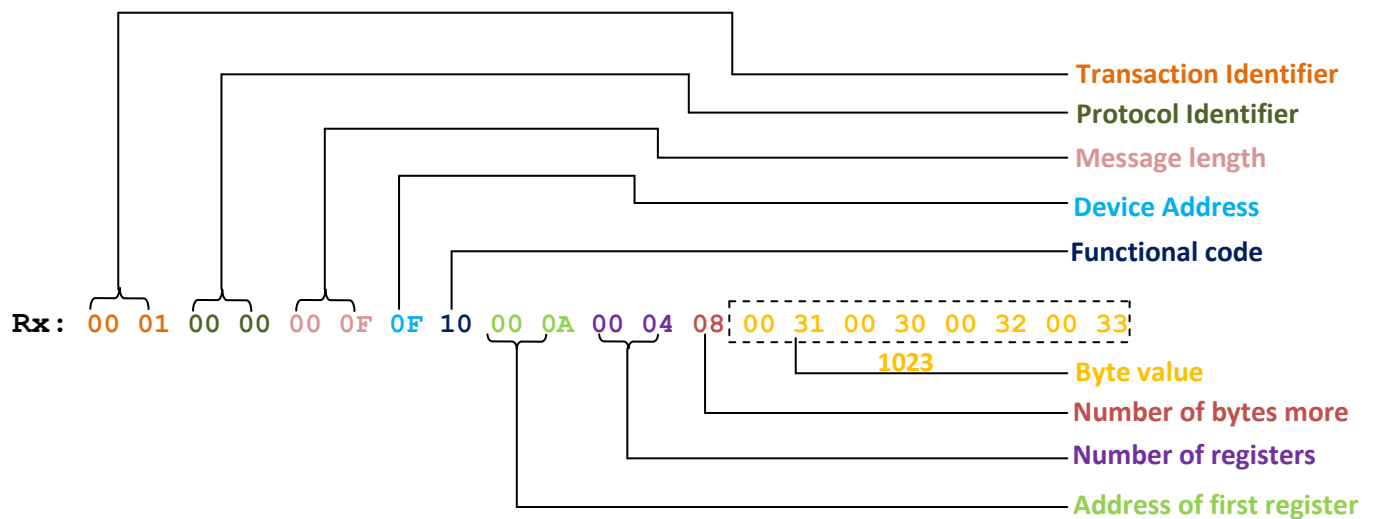
1. **Hexadecimal** = 00 52 00 44 00 4C **Decimal** = 82, 68, 76 ASCII = RDL.
2. All the above Data are hexadecimal values.
3. Function Code 0x10 is for Multiple Register.



NOTE:

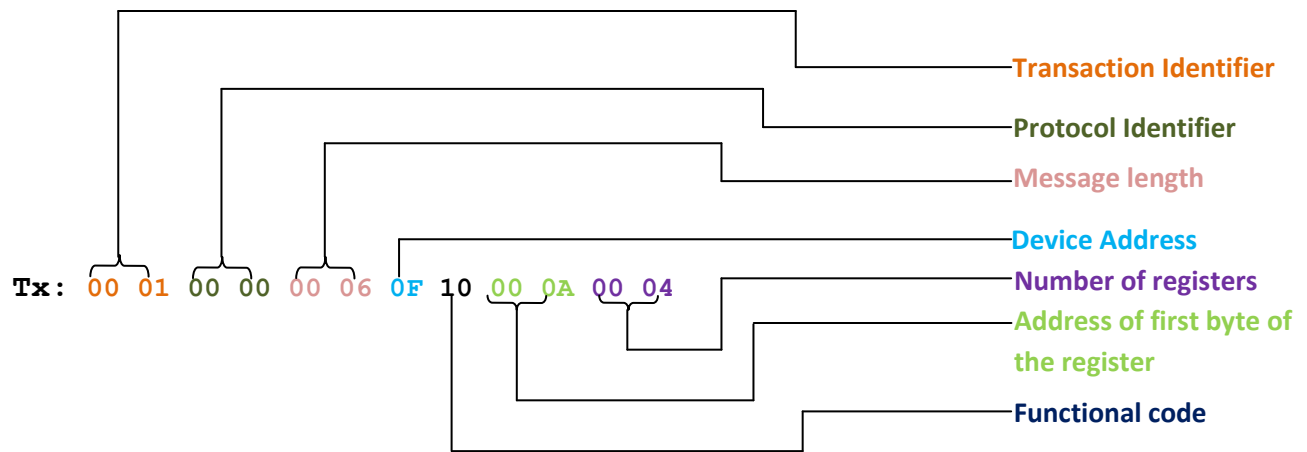
1. All the above Data are hexadecimal values.
2. Function Code 0x10 is for Multiple Register.

3.6 Modbus TCP data format to transfer Name information (Master):



Note:

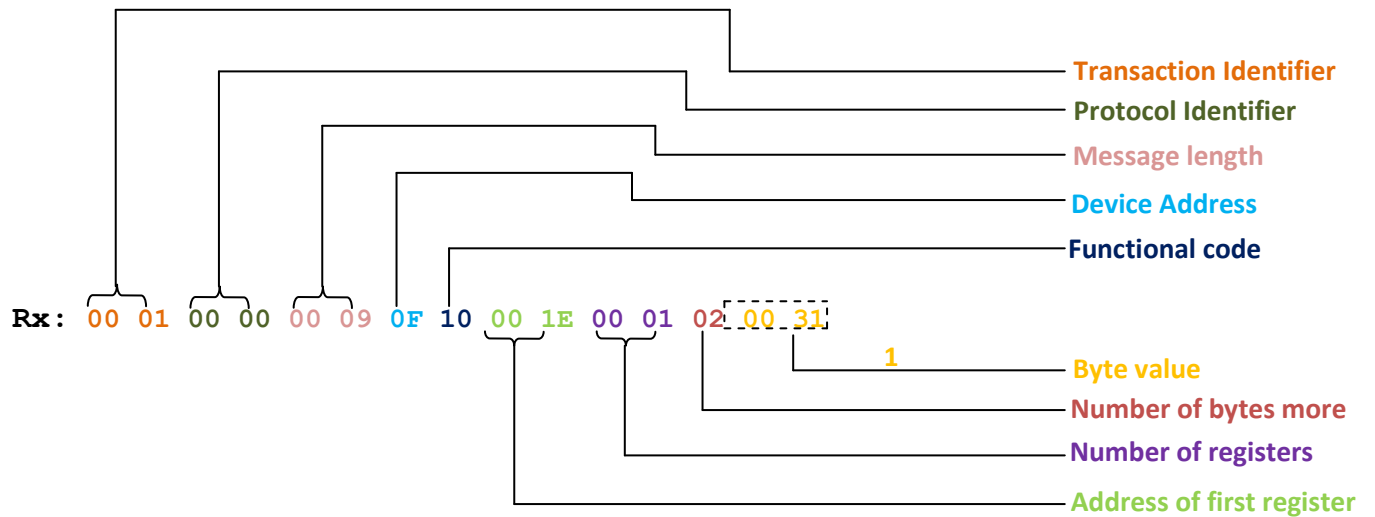
1. **Hexadecimal** = 00 31 00 30 00 32 00 33 **Decimal** = 49, 48, 50, 51 **ASCII** = 1023.
2. All the above Data are hexadecimal values.
3. Function Code 0x10 is for Multiple Register.



NOTE:

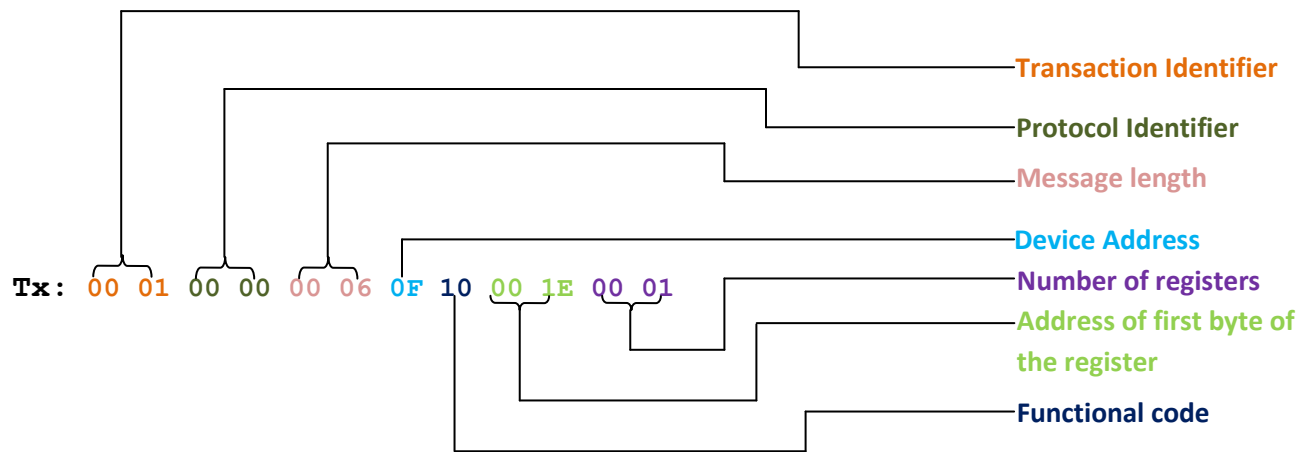
1. All the above Data are hexadecimal values.
2. Function Code 0x10 is for Multiple Register.

3.7 Modbus TCP data format to transfer Date/Time information (Master):



Note:

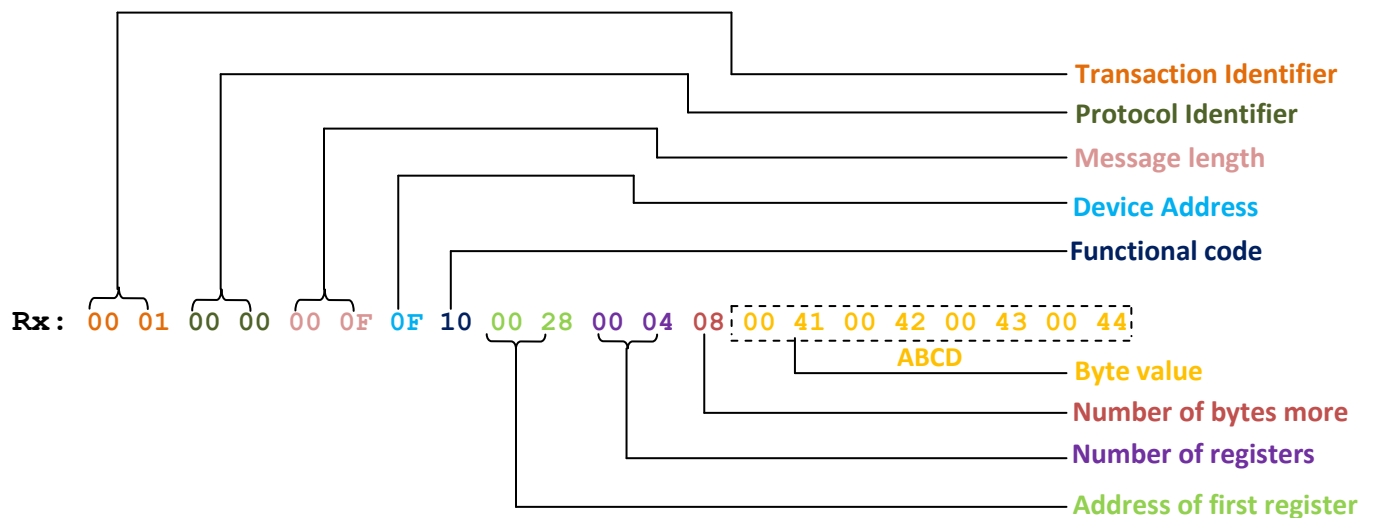
1. Hexadecimal = 00 31 Decimal = 49 ASCII = 1.
2. All the above Data are hexadecimal values.
3. Function Code 0x10 is for Multiple Register.



NOTE:

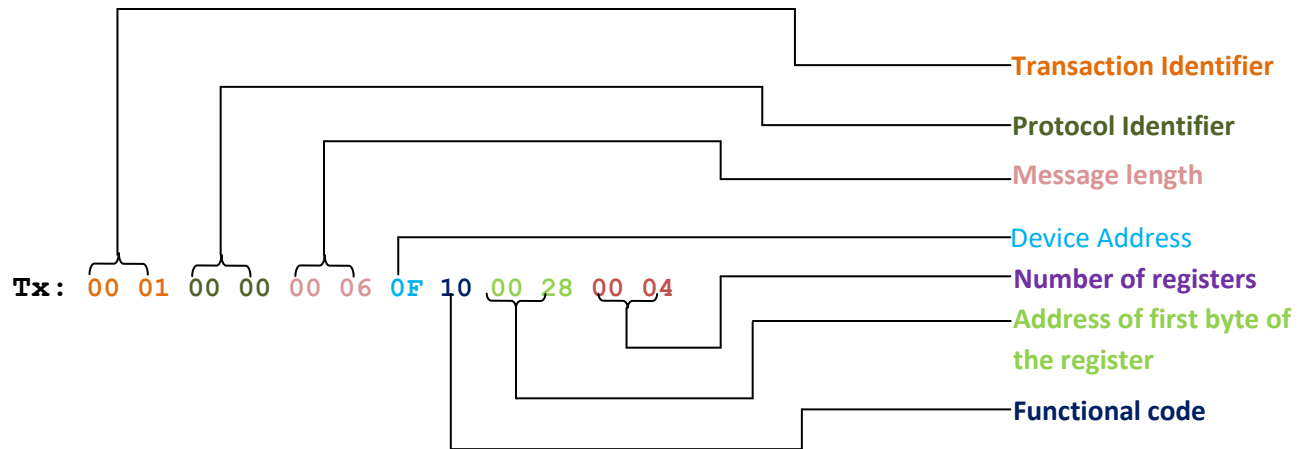
1. All the above Data are hexadecimal values.
2. Function Code 0x10 is for Multiple Register.

3.8 Modbus TCP data format to transfer Department information (Master):



Note:

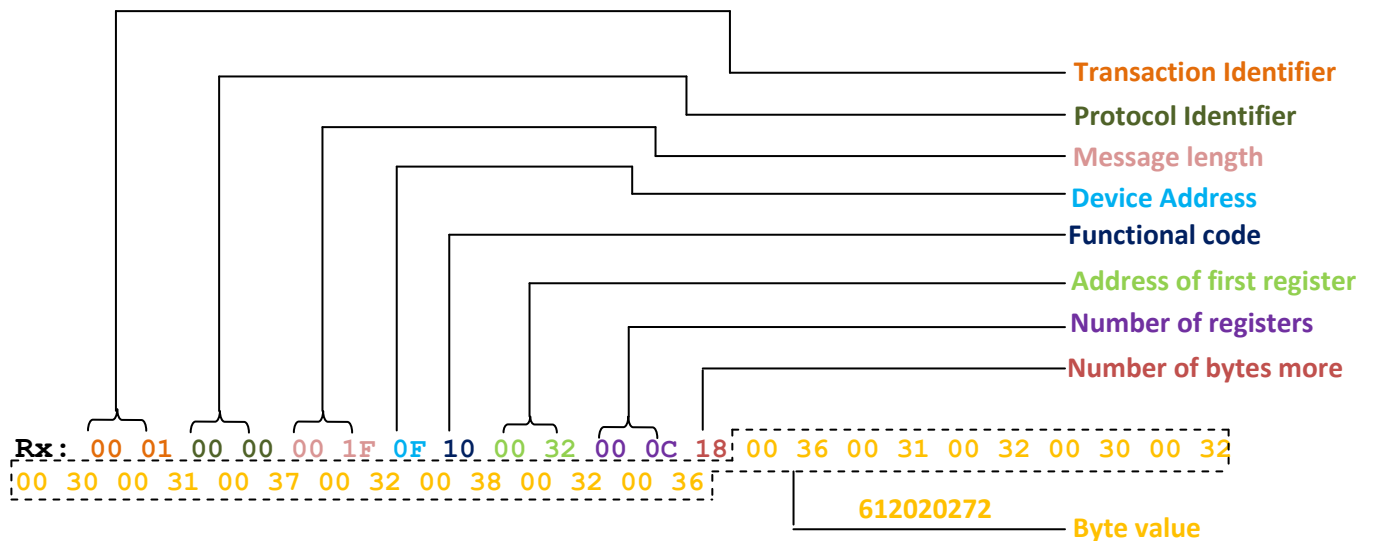
1. **Hexadecimal** = 00 41 00 42 00 43 00 44 **Decimal** = 65, 66, 67, 68 **ASCII** = ABCD.
2. All the above Data are hexadecimal values.
3. Function Code 0x10 is for Multiple Register.



NOTE:

1. All the above Data are hexadecimal values.
2. Function Code 0x10 is for Multiple Register.

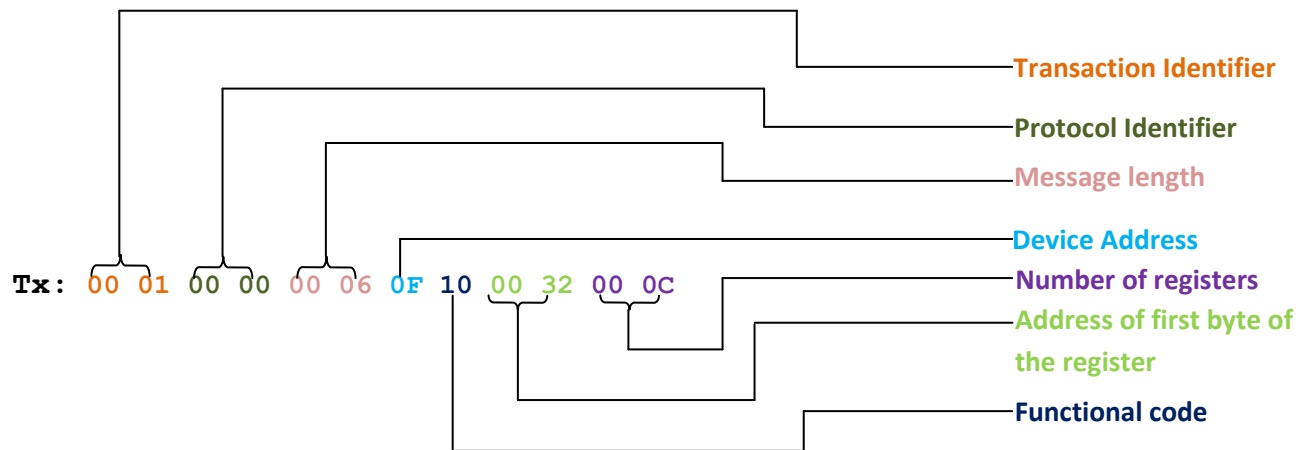
3.9 Modbus TCP data format to transfer Date/Time information (Master):



Note:

1. **Hexadecimal** = 00 36 00 31 00 32 00 30 00 32 00 30 00 31 00 37 00 32 00 38 00 32 00 36 **Decimal** = 54, 49, 50, 48, 50, 48, 50, 55, 50 **ASCII** = 612020272.
2. All the above Data are hexadecimal values.

3. Function Code 0x10 is for Multiple Register.



NOTE:

1. All the above Data are hexadecimal values.
2. Function Code 0x10 is for Multiple Register.

4.OPEN DATA RS485/RS232

