



Option 19 — Modbus Communication Setup

For Modbus TCP/IP, enter the IP address of the Modbus TCP/IP device and the Modbus address of the device with which to communicate.

Modbus Communication Parameters

Modbus RTU Communication Parameters	Modbus ASCII Communication Parameters
Baud rate — 9600, 14400, 19200, 38400, 57600	Baud rate — 600, 14400, 19200, 38400, 57600
Data bits — 8	Data bits — 7
Parity — None	Parity — None
Stop bits — 2	Stop bits — 2
Flow control — None	Flow control — None
Default address — 1	Default address — 1

To access the Modbus Communication Setup menu in Program mode:

1. Press **P**.
2. Enter your **Advanced** access password, and then press **E**.
3. Press **2** to invoke the Quick Jump option.
4. Press **19** for the **Modbus Communication Setup** menu, and then press **E**.

The menu prompts you for the flow meter device address.

```
DEV MODBUS ADDR
>1
```

The address can be from 1 to 247. The default address is **1** for single-point flow meters.

5. Press the numeric keys to enter the device address, and press then **E**.

The menu prompts you for the Modbus mode.

```
MODBUS MODE
>MODBUS RTU ^v
```

The Modbus mode defines whether the master/slave device will communicate using the Modbus ASCII or Modbus RTU protocol. Modbus RTU is the default.

The B-Series Modbus setup for ASCII transmission framing is not supported by KzComm. If KzComm is to be used over Modbus, RTU transmission framing must be used.



6. Use the arrow keys to select either **Modbus ASCII** or **Modbus RTU**, and then press **E**.

The menu prompts you for the data transmission (baud) rate.

```
MODBUS BAUD RATE
>38400 BPS    ^v
```

Slower rates (9600) are commonly used for longer distances between the device and the computer, while faster rates (57600) are for much shorter distances. The rates are 9600, 14400, 19200, 38400, and 57600. The default is 38400 BPS.

7. Use the arrow keys to select a data speed, and then press **E**.

The menu prompts you for the byte order of the Modbus registers.

```
REGISTER ORDER
>BYTE #12 34 ^v
```

This parameter ensures the Modbus Master correctly interprets the floating point data from the Modbus registers. There two options indicate the order of the Modbus registers when two registers are used for a device parameter.

BYTE #1 2 3 4 (the default) means that the low order byte is sent first, followed by the high order byte.

BYTE # 3 4 1 2 means that the high order byte is sent first, followed by the low order byte.

8. Use the arrow keys to select a byte order, and then press **E**.
9. Press **E** or **P** to exit the Modbus Communication Setup menu.

If an issue occurs with reading floating point numbers, try changing the Register Order parameter.