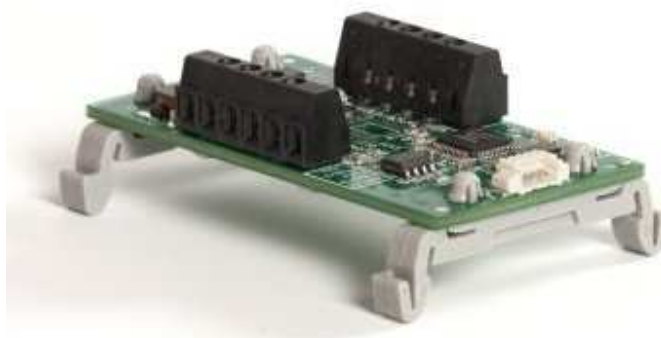


T7 Communication User Guide

Communication via CAN Adapter/RS232/RS485

Version 1.6

8/11/2011



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Amendments

Date	Comment(s)
08/11/2011	Added text for T7-1-485 variant. Version 1.6
10/27/2010	Fixed incorrect checksum values in a couple examples. Version 1.5
10/01/2009	Removed Set Multi-Drop Delay command. Version 1.4
08/17/2009	Added section 1.4 All Respond Address use and limitations. Version 1.3
07/14/2009	Added Set Multi-Drop Delay command for RS232 support. Version 1.2
04/08/2009	Command response now includes address, length, and command. Version 1.1
3/27/2008	T7 Communication User Guide. Version 1.0



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1 General

This document describes how to communicate with a **T7-1-232**, **T7-1-485** or **T7-1-CAN** MEMS Digital inclinometer. The protocol for the **T7-1-MOD2** and **T7-1-MOD4** is described in the **T7 Modbus Communication User Guide**.

- A **T7-1-232** connects directly to a RS232 serial port on a host computer.
- A **T7-1-485** connects to a RS485 port. A RS485-to-USB serial port adapter or RS485-to-RS232 adapter is typically used to connect to a PC. Up to 32 **T7-1-485** devices can be connected to the same RS485 bus.
- A **T7-1-CAN** connects to an RS232 serial port via a **CANA-232** or **CANA-485** adapter. The CAN adapter serves as a command translator between a host serial port and the USD-CAN bus used by the T7 network. RS232, RS485 is used on the host side, depending on the type of adapter used. A host can access every T7 on the network by sending/receiving simple serial commands to/from the CAN adapter. The user does not communicate directly on the CAN bus.

The US Digital CAN bus protocol is unique and is not currently intended to be shared with non-US Digital products. US Digital developed this implementation of the CAN bus after evaluating a variety of standards and concluding that it could provide far greater simplicity, efficiency, and lower cost. US Digital also provides a DLL, a demo application, and user configuration utility software to run on a PC using Windows. The DLL allows the user to talk to the T7 using higher level functions to save development time. See the T7 DLL User Guide and The T7 datasheet for other related documents.

The following section provides some basic information about the serial communication between the host computer and a T7-1-232, T7-1-485 or a CAN adapter.

- The default RS232/RS485 parameters are 115200 baud, 8 data bits, and no parity. The baud rate can be changed to any of the following: 115200, 57600, 38400, 19200 and 9600.
- The T7 only responds to commands from the host. It does not initiate communication and cannot be configured to respond periodically.
- The T7 responds within 2 milliseconds for all “Get” commands and within 25 milliseconds for all “Set” commands.
- A command from the host must be less than 500 milliseconds in duration (first byte to last byte) or the T7 will discard the command.
- The byte order for multi-byte values is Big Endian (most significant byte first).
- The data is transmitted in binary format rather than ASCII, so it cannot be viewed on a terminal.
- Unless otherwise specified, all data values are signed (2’s complement).
- Multiple devices can be addressed using a single serial connection.
- All commands have a response. “Get” commands return data while “Set” commands return a status indicating the outcome of the command.
- All set messages and all set and get responses include a checksum to verify data integrity.
 - The checksum is calculated by adding all the bytes in the message except the checksum, negating (2’s complement) the value and taking the low byte of the result. The checksum is placed in the last byte of the message.



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- To verify data integrity, simply add all the response bytes including the checksum and verify that the lowest byte of the sum is equal to zero.

User commands – Data format and ranges

All angles are reported in degrees multiplied by 1000.

For example, an angle of 123.456 degrees is reported as 123456.

The range of the reported angle depends on the output mode.

Angle output mode	Angle range
0 (bidirectional)	-180.000 to 179.999
1 (unidirectional)	0 to 359.999

The actual data is transmitted as 2's complement binary data.

T7 axes are numbered 0, 1 and 2. A single axis T7 (T7-1-XXX) uses Axis 2.

Accelerometer values are reported in units of gravity (G) multiplied by 102300.

For example, an acceleration of 0.5 g is reported as 51150.

1.1 **Command Format**

A command refers to a message sent from the host to a T7.

The basic format for a command is:

Address, Length, Command, Data, [Checksum]

Address – one byte destination address i.e. the intended recipient of the command

Length – one byte command length (doesn't include the address or length bytes)

Command – one byte command (described in this document)

Data - zero or more bytes of data required for this command

Checksum – one byte checksum (LSB of negative of the sum of all bytes in message) used only for set commands.

The default address of a new T7 is 127.

The address of each T7 can be set to any value from 1 to 100 or 127.

All T7s respond to a command sent to address 126.

Address 0 is reserved for CAN adapter address.



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1.2 Response Format

A response refers to a message sent from a T7 to the host.

The basic format for a response is:

Address, Length, Command, Data, Checksum

Address – one byte source address i.e. who sent the response.

Length – one byte response length (doesn't include the address or length bytes)

Command – one byte command (same as the original command)

Data – one or more byte response (described in this document)

Checksum – one byte checksum (LSB of negative sum of all bytes in message)

1.3 Status Values

“Set” commands change parameters in the T7. These changes are saved in non-volatile memory. The T7 responds to “set” commands with a status byte. The following table contains the possible status byte values:

Status Value (hex)	Description
00	Success
01	Invalid command
02	Reserved
03	Invalid parameter
04	Checksum error
05	Command failed
06	Reserved
07	Flash erase error
08	Flash program error
09	Address out of range

1.4 All Respond Address

When a command is sent to address 126 (0x7E), all connected T7s will respond. The all respond address can only be used with commands that have a response length value less than or equal to eight. The following commands can be used with the all respond address:

Roll Call

Get Angle for axis 0, 1, or 2

Set Angle

Set Angle Offset

Get and Set directions

Get and Set damping

Get and Set angle output range

Get All Angles for example, cannot be used with the all respond address.



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The design of the CAN bus allows higher priority messages to preempt lower priority messages where the priority is determined by the address and other bits in the CAN ID. The response to some commands such as "Get All Angles" is longer than will fit in a single CAN message. If the all respond address is used with a command that has a response longer than a single CAN message the CAN responses may get interleaved. This can happen if a device with a lower address (higher priority) begins responding slightly after a device with a higher address. The CAN adapter converts CAN responses to RS232/RS485 responses as they are received. If the CAN responses are interleaved the RS232/RS485 output will not be a valid response.

2 CAN Adapter Commands

Commands sent to address zero are processed directly in the CAN adapter. Commands sent to other addresses other than zero are forwarded to the T7s on the CAN bus and are not processed by the CAN adapter.

The CAN adapter responds to the following commands (when address zero is used).

- Roll Call
- Get Device Info
- Set Baud Rate



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3 T7 Commands

3.1 Get and Set Angles

This command group provides the ability to get or set the angles for each axis.

3.1.1 Get All Angles (command 80)

	Parameter	# bytes	Units	Notes
Command	address	1		Destination address.
	01 (hex)	1		Message length (not including the address or length bytes).
	80 (hex)	1		Get all angles command.
Response	address	1		Source address.
	10 (hex)	1		Response length (not including the address or length bytes)
	80 (hex)	1		Get all angles command.
	angle0	4	deg. * 1000	Range depends on output mode.
	angle1	4		
	angle2	4		
	Temperature	2	deg. C * 100	-500 to 19000
	checksum	1		

Example (get all angles from address 5):

```

address
| length
| | command
| | |
Command: 05 01 80

address
| length
| | command
| | | angle0----- angle1----- angle2----- temperature
Response: 05 0A 80 00 02 7D B2 FF FF 4E F8 00 00 4E DE 08 FC CC
    
```

Values:

angle0 = 00027DB2 (hex) = 163.250 degrees
 angle1 = FFFF4EF8 (hex) = -45.320 degrees
 angle2 = 00004EDE (hex) = 20.190 degrees

Refer to T7User.dll function **T7_GetAllAngles** in the T7 DLL User Guide.



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3.1.2 Get Angle for Axis 0

(command 81)

	Parameter	# bytes	Units	Notes
Command	address	1		Destination address.
	01 (hex)	1		Message length (not including the address or length bytes).
	81 (hex)	1		Get angle for axis 0 command.
Response	address	1		Source address.
	06 (hex)	1		Response length (not including the address or length bytes).
	81 (hex)	1		Get angle for axis 0 command.
	angle	4	deg. * 1000	Range depends on output mode
	checksum	1		

For a single axis T7, the angle reported will always be zero.

Example (get angle of axis 0 from address 5):

```
      address
      | length
      | | command
Command: 05 01 81

      address
      | length
      | | command
      | | | angle----- checksum
Response: 05 06 81 FF FF 4E FF 29
```

Values:

Axis 0 angle = FFFF4EFF (hex) = -45.313 degrees

Refer to T7User.dll function **T7_GetAngle** in the T7 DLL User Guide.



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3.1.3 Get Angle for Axis 1 (command 82)

	Parameter	# bytes	Units	Notes
Command	address	1		Destination address.
	01 (hex)	1		Message length (not including the address or length bytes).
	82 (hex)	1		Get angle for axis 1 command.
Response	address	1		Source address.
	06 (hex)	1		Response length (not including the address or length bytes).
	82 (hex)	1		Get angle for axis 1 command.
	angle	4	deg. * 1000	Range depends on output mode
	checksum	1		

For a single axis T7, the angle reported will always be zero.

Example (get angle of axis 1 from address 5):

```

address
| length
| | command
Command: 05 01 82

address
| length
| | command
| | | angle----- checksum
Response: 05 06 81 FF FF 4E FF 29
    
```

Values:

Axis 1 angle = FFFF4EFF (hex) = -45.313 degrees

Refer to T7User.dll function **T7_GetAngle** in the T7 DLL User Guide.



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3.1.4 Get Angle for Axis 2 (command 83)

	Parameter	# bytes	Units	Notes
Command	address	1		Destination address.
	01 (hex)	1		Message length (not including the address or length bytes).
	83 (hex)	1		Get angle for axis 2 command.
Response	address	1		Source address.
	06 (hex)	1		Response length (not including the address or length bytes).
	83 (hex)	1		Get angle for axis 2 command.
	angle	4	deg. * 1000	Range depends on output mode
	checksum	1		

Example (get angle of axis 2 from address 5):

```

address
| length
| | command
Command: 05 01 83

address
| length
| | command
| | | angle----- checksum
Response: 05 06 83 FF FF 4E FF 27
    
```

Values:

Axis 2 angle = FFFF4EFF (hex) = -45.313 degrees

Refer to T7User.dll function **T7_GetAngle** in the T7 DLL User Guide.



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3.1.5 Set Angle

(command 84)

Set angle will calculate and save an angle offset such that the current angle equals the specified angle. If the T7 has moved, be sure to wait the number milliseconds specified in the Set Damping command for the angle to stabilize before writing the angle. This command is commonly used to set current angle to zero.

	Parameter	# bytes	Units	Notes
Command	address	1		Destination address
	07 (hex)	1		Message length (not including the address or length bytes).
	84 (hex)	1		Set angle command
	axis	1		0, 1 or 2
	angle	4	deg. * 1000	Range depends on output mode
	checksum	1		
Response	address	1		Source address
	03 (hex)	1		Response length (not including the address or length bytes).
	84 (hex)	1		Set angle command
	status	1		0 = pass, see Status table above.
	checksum	1		

Example (setting angle of axis 2 to 10.500 degrees on address 5):

```

address
| length
| | command
| | | axis
| | | | angle----- checksum
Command: 05 07 84 02 00 00 29 04 41
    
```

```

address
| length
| | command
| | | status
| | | | checksum
Response: 05 03 84 00 74
    
```

Values:

Axis 2 angle = 00002904 (hex) = 10.500 degrees

Refer to T7User.dll function **T7_SetAngle** in the T7 DLL User Guide.



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3.2 Angle Offsets

The user can specify an angle offset that the T7 will internally add to the angle before it gets reported it to the host. The angle offset is applied internally as follows:

$$\text{reported angle} = \text{absolute angle} + \text{angle offset}$$

The T7 will keep the reported angle within the valid range set by the Set Angle Output Range command.

3.2.1 Get All Angle Offsets (command 85)

	Parameter	# bytes	Units	Notes
Command	address	1		Destination address
	01 (hex)	1		Message length (not including the address or length bytes).
	85 (hex)	1		Get all angle offsets command
Response	address	1		Source address
	0E (hex)	1		Response length (not including the address or length bytes).
	85 (hex)	1		Get all angle offsets command
	angle0 offset	4	deg. * 1000	Range depends on output mode. The factory default values are 0.
	angle1 offset	4		
	angle2 offset	4		
checksum	1			

Example (get all angle offsets from address 5):

```

address
| length
| | command
Command: 05 01 85

address
| length
| | command
| | | offset0---- offset1---- offset2---- checksum
Response: 05 0E 85 00 00 28 0A FF FF 4E 76 00 00 AF C8 FD
    
```

Values:

offset 0 = 0000280A (hex) = 10.250 degrees
 offset 1 = FFFF4E76 (hex) = -45.45 degrees
 offset 2 = 0000AFC8 (hex) = -20.536 degrees

Refer to T7User.dll function **T7_GetAllAngleOffsets** in the T7 DLL User Guide.



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3.2.2 Set Angle Offset

(command 86)

	Parameter	# bytes	Units	Notes
Command	address	1		Destination address
	07 (hex)	1		Message length (not including the address or length bytes).
	86 (hex)	1		Set angle offset command
	axis	1		0, 1 or 2
	angle offset	4	deg. * 1000	Range depends on output mode.
	checksum	1		
Response	address	1		Source address
	03 (hex)	1		Response length (not including the address or length bytes).
	86 (hex)	1		Set angle offset command
	status	1		0 = pass, see table above
	checksum	1		

Example (setting angle offset of axis 2 to 30.000 degrees on address 5):

```

address
| length
| | command
| | | axis
| | | | angle----- checksum
Command: 05 07 86 02 00 00 75 30 C7
    
```

```

address
| length
| | command
| | | status
| | | | checksum
Response: 05 03 86 00 72
    
```

Values:

angle = 00007530 (hex) = 30.000 degrees

Refer to T7User.dll function **T7_SetAngleOffset** in the T7 DLL User Guide.



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3.3 Get All Data

(command 87)

	Parameter	# bytes	Units	Notes
Command	address	1		Destination address
	01 (hex)	1		Message length (not including the address or length bytes).
	87 (hex)	1		Get all data command
Response	address	1		Source address
	20(hex)	1		Response length (not including the address or length bytes).
	87 (hex)	1		Get all data command.
	angle0	4	deg. *1000	Range depends on output mode.
	angle1	4		
	angle2	4		
	Temperature	2	deg. C * 100	-500 to 19000
	accel0	4	G * 102,300	
	accel1	4		
	accel2	4		
	serial number	4		32-bit unsigned value
	checksum	1		

Example (get all data from address 5):

```

address
| length
| | command
Command: 05 01 87
    
```

```

address
| length
| | command
| | | angle0----- angle1----- angle2----- temperature
Response: 05 20 87 FF FF F9 89 FF FF 4E F8 FF FD 73 66 08 FC
    
```

```

accel0----- accel1----- accel2----- serial num- checksum
00 00 02 5C 00 00 04 28 FF FE 82 25 00 00 61 C9 5F
    
```

Values:

angle0 = FFFFF989 (hex) = -1.655 degrees
 angle1 = FFFF4EF8 (hex) = -45.320 degrees
 angle2 = FFFD7366 (hex) = -167.066 degrees
 accel0 = 0000025C (hex) = 0.00590g.
 accel1 = 00000428 (hex) = 0.01040g.
 accel2 = FFFE8225 (hex) = -0.95557g.
 serial number = 000061C9 (hex) = 25033.

Refer to T7User.dll function **T7_GetAllData** in the T7 DLL User Guide.



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3.4 Directions

Each T7 axis can be configured as normal or reversed direction. The following two commands can be used to get or set direction parameters of the desired axis (axes).

3.4.1 Get All Directions (command 88)

	Parameter	# bytes	Units	Notes
Command	address	1		Destination address
	01 (hex)	1		Message length (not including the address or length bytes).
	88(hex)	1		Get all directions command
Response	address	1		Source address
	05 (hex)	1		Response length (not including the address or length bytes).
	88 (hex)	1		Get all directions command
	direction 0	1		0 = normal, 1 = reversed 0 is the factory default
	direction 1	1		
	direction 2	1		
	checksum	1		

Example (get all directions from address 5):

```

address
| length
| | command
| | |
Command: 05 01 88

address
| length
| | command
| | | D0 D1 D2 checksum
Response: 05 05 88 00 00 01 6D
    
```

Values:

Axis 0 and 1 are normal direction and axis 2 is reversed.

Refer to T7User.dll function **T7_GetAllDirections** in the T7 DLL User Guide.



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3.4.2 Set Direction

(command 89)

	Parameter	# bytes	Units	Notes
Command	address	1		Destination address
	04 (hex)	1		Message length (not including the address or length bytes).
	89 (hex)	1		Set angle direction command
	axis	1		0, 1, or 2
	direction	1		0 = normal, 1 = reversed
	checksum	1		
Response	address	1		Source address
	03 (hex)	1		Response length (not including the address or length bytes).
	89 (hex)	1		Set angle direction command
	status	1		0 = pass, see Status table above.
	checksum	1		

Example (set axis 2 direction to reversed on address 5):

```

address
| length
| | command
| | | axis
| | | | direction
| | | | | checksum
Command: 05 04 89 02 01 6B
    
```

```

address
| length
| | command
| | | status
| | | | checksum
Response: 05 03 89 00 6F
    
```

Refer to T7User.dll function **T7_SetDirection** in the T7 DLL User Guide.



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3.5 Damping

Electronic damping is achieved by averaging multiple readings to reduce noise. As the damping time is increased, the angle readings have less noise but the response time is slower.

3.5.1 Get Damping (command 8A)

	Parameter	# bytes	Units	Notes
Command	address	1		Destination address
	01 (hex)	1		Message length (not including the address or length bytes).
	8A (hex)	1		Get damping command
Response	address	1		Source address
	04 (hex)	1		Response length (not including the address or length bytes).
	8A (hex)	1		Get damping command
	damping time	2	Milliseconds	2 to 5,000 milliseconds
	checksum	1		

Example (get damping time from address 5):

```
address
| length
| | command
Command: 05 01 8A
```

```
address
| length
| | command
| | | damp checksum
Response: 05 04 8A 03 E8 82
```

Values:

Damping time = 03E8 (hex) = 1000 milliseconds.

Refer to T7User.dll function **T7_GetDamping** in the T7 DLL User Guide.



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3.5.2 Set Damping

(command 8B)

	Parameter	# bytes	Units	Notes
Command	address	1		Destination address
	04 (hex)	1		Message length (not including the address or length bytes).
	8B (hex)	1		Set damping time command
	damping time	2	Milliseconds	2 to 5,000 milliseconds
	checksum	1		
Response	address	1		Source address
	03 (hex)	1		Response length (not including the address or length bytes).
	8B (hex)	1		Set damping time command
	status	1		0 = pass, see Status table above.
	checksum	1		

Example (set damping time to 500 milliseconds on address 5):

```

address
| length
| | command
| | | damping time
| | | | checksum
Command: 05 04 8B 01 F4 77
    
```

```

address
| length
| | command
| | | status
| | | | checksum
Response: 05 03 8B 00 6D
    
```

Values:

Damping time = 01F4 (hex) = 500 milliseconds.

Refer to T7User.dll function **T7_SetDamping** in the T7 DLL User Guide.



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3.6 Angle Output Range Setup

There are two commands in this group.

3.6.1 Get Angle Output Range (command 8C)

	Parameter	# bytes	Units	Notes
Command	address	1		Destination address.
	01 (hex)	1		Message length (not including the address or length bytes).
	8C (hex)	1		Get angle output range command.
Response	address	1		Source address.
	03 (hex)	1		Response length (not including the address or length bytes).
	8C (hex)	1		Get angle output range command.
	angle range	1		0 = range is -180.000 to 179.999 (bidirectional) 1 = range is 0.000 to 359.999 (unidirectional)
	checksum	1		

Example (get output angle range from address 5):

```
address
| length
| | command
Command: 05 02 8C
```

```
address
| length
| | command
| | | output range
| | | | checksum
Response: 05 03 8C 00 6C
```

Values:

Angle output range = 00 (hex) is bidirectional.

Refer to T7User.dll function **T7_GetAngleOutputRange** in the T7 DLL User Guide.



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3.6.2 Set Angle Output Range

(command 8D)

	Parameter	# bytes	Units	Notes
Command	address	1		Destination address.
	03 (hex)	1		Message length (not including the address or length bytes).
	8D (hex)	1		Set angle output range command.
	angle range	1		0 = range is -180.000 to 179.999 (bidirectional) 1 = range is 0.000 to 359.999 (unidirectional)
	checksum	1		
Response	address	1		Source address.
	03 (hex)	1		Response length (not including the address or length bytes).
	8D (hex)	1		Set angle output range command.
	status	1		0 = pass, see Status table above.
	checksum	1		

Example (set output angle range on address 5):

```

address
| length
| | command
| | | angle range
| | | | checksum
Command: 05 03 8D 01 6A
    
```

```

address
| length
| | command
| | | status
| | | | checksum
Response: 05 03 8D 00 6B
    
```

Values:

Output angle range = 01(hex), (0.000 to 359.999)

Refer to T7User.dll function **T7_SetAngleOutputRange** in the T7 DLL User Guide.



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3.7.2 Set Baud Rate

(command 8F)

	Parameter	# bytes	Units	Range
Command	address	1		Destination address.
	03 (hex)	1		Message length (not including the address or length bytes).
	8F (hex)	1		Change baud rate command.
	baud rate index	1		0 = 115.2 kbps 1 = 57.6 kbps 2 = 38.4 kbps 3 = 19.2 kbps 4 = 9.6 kbps The factory default is 0.
	checksum	1		
Response	address	1		Source address.
	03 (hex)	1		Response length (not including the address or length bytes).
	8F (hex)	1		Change baud rate command.
	status	1		0 = pass, see Status table above.
	checksum	1		

This command can be used to change the baud rate of the CAN adapter or any T7 that is configured for RS-232 communication.

The response is sent using the previous baud rate. The baud rate is changed about 10 milliseconds after a successful response is sent. This command does not change the CAN bus bit rate. The CAN bus bit rate is fixed at 250 Kbps.

Example (set baud rate to 9600 bytes per second on address 5):

```

address
| length
| | command
| | | baud rate code
| | | | checksum
Command: 05 03 8F 04 65
    
```

```

address
| length
| | command
| | | status
| | | | checksum
Response: 05 03 8F 00 69
    
```

Refer to T7User.dll function **T7_InitComm** and **T7_SetBaudRate** in the T7 DLL User Guide



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3.8 Roll Call

(command 90)

	Parameter	# bytes	Units	Range
Command	address	1		Destination address.
	01 (hex)	1		Message length (not including the address or length bytes).
	90 (hex)	1		Roll call command.
Response	current address	1		Source address.
	07 (hex)	1		Response length (not including the address or length bytes).
	90 (hex)	1		Roll call command.
	device type	1		1 = T7-3 (3 axis T7) 2 = CAN Adapter 4 = T7-1 (single axis T7)
	serial number	4		
	checksum	1		

This command used with destination address 126 (7E hex) causes all devices attached to a US Digital CAN Adapter to report their current address and device type. One Response message will be returned from each device that responds to the roll call command. This command may also be used to ping a single device by using a destination address between 1 and 100 (01 to 64 hex). The CAN Adapter does not respond to commands sent to address 126 (7E hex). To ping the CAN Adapter, send the roll call message to address 0.

Example (perform roll call on all addresses using global address 126 (7E hex). Two devices respond):

```

address
| length
| | command
Command: 7E 01 90

address
| length
| | command
| | | device type
| | | serial num
| | | | checksum
Response: 01 07 90 04 00 00 61 C9 3A
          02 07 90 04 00 00 61 CA 38
    
```

Values:

From address 01:

device type = 04 (hex) = single axis T7

serial number = 000061C9 (hex) = 25033

Refer to T7User.dll function **T7_PingAddress** in the T7 DLL User Guide.



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3.9 Set Address

(command 91)

	Parameter	# bytes	Units	Range
Command	address	1		Destination address.
	08 (hex)	1		Message length (not including the address or length bytes).
	91 (hex)	1		Set address command.
	device type	1		1 = T7-3 (3 axis T7) 2 = CAN Adapter 4 = T7-1 (single axis T7)
	serial number	4		
	new address	1		Valid address 1 to 100.
	checksum	1		
Response	address	1		Source address.
	03 (hex)	1		Response length (not including the address or length bytes).
	91 (hex)	1		Set address command.
	status	1		0 = pass, see Status table above.
	checksum	1		

This command changes the address of a device and returns the original address in the response. All subsequent commands will use and respond with the new address.

Example (change device address from 5 to 1):

```

address
| length
| | command
| | | device type
| | | | serial num
| | | | | new address
| | | | | | checksum
Command: 05 08 91 04 00 00 61 C9 01 33
    
```

```

address
| length
| | command
| | | status
| | | | checksum
Response: 05 03 91 00 67
    
```

Refer to T7User.dll function **T7_SetAddress** in the T7 DLL User Guide.

