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XTIS405 Driver Manual

Texas Instruments TI-405 PLC Series Protocol Driver

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XTIS405 technical specifications

General information

XTIS405 driver allows you to connect to Texas Instruments PLCs, Series 405. It allows Multidrop configuration via RS-422. The protocol used is HEXADECIMAL (Thus, make sure that the PLC Data Communications Unit Dip-Switch 4 is OFF). Requires a free RS-232 port in your PC.

Command list

Commands

Read Timer/Counter/Accumulator and V-Memory in Binary Mode

Description of this command:

Reads the timer/counter/accumulator and V-Memory values in binary mode.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-128

Meaning of the DriverP0 parameter:

Indicates the station number (1-223).

Meaning of the DriverP1 parameter:

49

Meaning of the DriverP2 parameter:

Start address. In this case HMITalk1.DriverP2 must have a value according to:

- TMR : from 1 to 128 (V00000 to V00177)
- CNT : from 513 to 640 (V01000 to V01177)
- V Memory: from 769 to 4096 (V01400 to V07777)

Meaning of the DriverP3 parameter:

0

Read Remote Input/Xs/Cs/Ys and Stage Status in Binary Mode

Description of this command:

Reads the remote input/Xs/Cs/Ys and stage status values in binary mode.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-128

Meaning of the DriverP0 parameter:

Indicates the station number (1-223).

Meaning of the DriverP1 parameter:

49

Meaning of the DriverP2 parameter:

Start address. In this case HMITalk1.DriverP2 must have a value according to:

- GX : from 16385 to 16416 (V40000 to V40037)
- X : from 16641 to 16660 (V40400 to V40423)
- Y : from 16705 to 16724 (V40500 to V40523)
- C : from 16769 to 16798 (V40600 to V40777)
- Stage Status: from 16897 to 16920 (V41000 to V41027)

Meaning of the DriverP3 parameter:

0

Read Timer Status/Counter Status/Special Relay 1 and Special Relay 2 in Binary Mode

Description of this command:

Reads the timer status/counter status/special relay 1 and special relay 2 values in binary mode.

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Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-128

Meaning of the DriverP0 parameter:

Indicates the station number (1-223).

Meaning of the DriverP1 parameter:

49

Meaning of the DriverP2 parameter:

Start address. In this case HMITalk1.DriverP2 must have a value according to:

- TMR Status : from 16961 to 16968 (V41100 to V41107)
- CNT Status : from 16993 to 17000 (V41140 to V41147)
- Spec.Relay 1: from 17025 to 17030 (V41200 to V41205)
- Spec.Relay 2: from 17039 to 17049 (V41215 to V41230)

Meaning of the DriverP3 parameter:

0

Read Remote Inputs/Xs/Special Relay 1 and Special Relay 2 in Bit Mode

Description of this command:

Reads the remote inputs/Xs/special relay 1 and special relay 2 values in bit mode.

Methods used to run this command:

Digital Input

Number of points accepted by this command:

1-128

Meaning of the DriverP0 parameter:

Indicates the station number (1-223).

Meaning of the DriverP1 parameter:

50

Meaning of the DriverP2 parameter:

Start address. In this case HMITalk1.DriverP2 must have a value according to:

- GX : from 1 to 64 (GX000 to GX777)
- X : from 257 to 296 (X000 to X477)
- Spec.Relay : from 385 to 434 (SP000 to SP617)

Meaning of the DriverP3 parameter:

0

Read Ys/Cs/Stage Status and Timer/Counter Status in Bit Mode

Description of this command:

Reads the Ys/Cs/stage status and timer/counter status values in bit mode.

Methods used to run this command:

Digital Input

Number of points accepted by this command:

1-128

Meaning of the DriverP0 parameter:

Indicates the station number (1-223).

Meaning of the DriverP1 parameter:

51

Meaning of the DriverP2 parameter:

Start address. In this case HMITalk1.DriverP2 must have a value according to:

- GY : from 0 to 256 (GY0000 to GY3777)
- Y : from 257 to 296 (Y000 to Y477)
- C : from 385 to 444 (C000 to C737)
- Stage : from 641 to 688 (S000 to S577)
- Timer Status : from 769 to 784 (T000 to T177)
- Counter Status: from 833 to 848 (CT000 to CT177)

Meaning of the DriverP3 parameter:

0

Read Input/Output in Words and Binary Mode

Description of this command:

Reads the input/output values in word and binary mode.

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Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-250

Meaning of the DriverP0 parameter:

Indicates the station number (1-223).

Meaning of the DriverP1 parameter:

51

Meaning of the DriverP2 parameter:

Start address. HMITalk1.DriverP2 must have the 8 bit- "package number" accessed, where:

Meaning of the DriverP2 parameter:

$(n/8)+1$, where "n" is the I/O bit number (decimal) which heads each PLC group of 8 bits. For example: for the group of I/O bits from 136 to 143 (dec.):

Meaning of the DriverP2 parameter:

$(136/8)+1=18$

Meaning of the DriverP3 parameter:

0

Read Scratch Pad Memory in Binary Mode

Description of this command:

Reads the scratch pad memory values in binary mode.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-128

Meaning of the DriverP0 parameter:

Indicates the station number (1-223).

Meaning of the DriverP1 parameter:

54

Meaning of the DriverP2 parameter:

Start address.

Meaning of the DriverP3 parameter:

0

Read Ladder Memory in Binary Mode

Description of this command:

Reads the ladder memory values in binary mode.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-128

Meaning of the DriverP0 parameter:

Indicates the station number (1-223).

Meaning of the DriverP1 parameter:

55

Meaning of the DriverP2 parameter:

Start address.

Meaning of the DriverP3 parameter:

0

Read Communication Errors in Binary Mode

Description of this command:

Reads the communication errors values in binary mode.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-128

Meaning of the DriverP0 parameter:

Indicates the station number (1-223).

Meaning of the DriverP1 parameter:

57

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Meaning of the DriverP2 parameter:

Start address.

Meaning of the DriverP3 parameter:

0

Read Input/Output in Bit Mode

Description of this command:

Reads the input/output values in bit mode.

Methods used to run this command:

Digital Input

Number of points accepted by this command:

1-250

Meaning of the DriverP0 parameter:

Indicates the station number (1-223).

Meaning of the DriverP1 parameter:

89

Meaning of the DriverP2 parameter:

Start address. HMITalk1.DriverP2 must have the 8 bit- "package number" accessed, where:

Meaning of the DriverP2 parameter:

$(n/8)+1$, where "n" is the I/O bit number (decimal) which heads each PLC group of 8 bits. For example: for the group of I/O bits from 136 to 143 (dec.):

Meaning of the DriverP2 parameter:

$(136/8)+1=18$

Meaning of the DriverP3 parameter:

0

Write Timer/Counter/Accumulator and V-Memory in Binary Mode

Description of this command:

Writes the timer/counter/accumulator and V-Memory values in binary mode.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1-125

Meaning of the DriverP0 parameter:

Indicates the station number (1-223).

Meaning of the DriverP1 parameter:

49

Meaning of the DriverP2 parameter:

Start address. In this case HMITalk1.DriverP2 must have a value according to:

- TMR : from 1 to 128 (V00000 to V00177)
- CNT : from 513 to 640 (V01000 to V01177)
- V Memory: from 769 to 4096 (V01400 to V07777)

Meaning of the DriverP3 parameter:

0

Write Remote Input/Xs/Cs/Ys and Stage Status in Binary Mode

Description of this command:

Writes the remote input/Xs/Cs/Ys and stage status values in binary mode.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1-125

Meaning of the DriverP0 parameter:

Indicates the station number (1-223).

Meaning of the DriverP1 parameter:

49

Meaning of the DriverP2 parameter:

Start address. In this case HMITalk1.DriverP2 must have a value according to:

- GX : from 16385 to 16416 (V40000 to V40037)
- X : from 16641 to 16660 (V40400 to V40423)
- Y : from 16705 to 16724 (V40500 to V40523)

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- C : from 16769 to 16798 (V40600 to V40777)
- Stage Status: from 16897 to 16920 (V41000 to V41027)

Meaning of the DriverP3 parameter:

0

Write Timer Status/Counter Status/Special Relay 1 and Special Relay 2 in Binary Mode

Description of this command:

Writes the timer status/counter status/special relay 1 and special relay 2 values in binary mode.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1-125

Meaning of the DriverP0 parameter:

Indicates the station number (1-223).

Meaning of the DriverP1 parameter:

49

Meaning of the DriverP2 parameter:

Start address. In this case HMITalk1.DriverP2 must have a value according to:

- TMR Status : from 16961 to 16968 (V41100 to V41107)
- CNT Status : from 16993 to 17000 (V41140 to V41147)
- Spec.Relay 1: from 17025 to 17030 (V41200 to V41205)
- Spec.Relay 2: from 17039 to 17049 (V41215 to V41230)

Meaning of the DriverP3 parameter:

0

Write Remote Inputs/Xs/Special Relay 1 and Special Relay 2 in Bit Mode

Description of this command:

Writes the remote inputs/Xs/special relay 1 and special relay 2 values in bit mode.

Methods used to run this command:

Digital Output

Number of points accepted by this command:

1-8

Meaning of the DriverP0 parameter:

Indicates the station number (1-223).

Meaning of the DriverP1 parameter:

50

Meaning of the DriverP2 parameter:

Start address. In this case HMITalk1.DriverP2 must have a value according to:

- GX : from 1 to 64 (GX000 to GX777)
- X : from 257 to 296 (X000 to X477)
- Spec.Relay : from 385 to 434 (SP000 to SP617)

Meaning of the DriverP3 parameter:

0

Write Ys/Cs/Stage Status and Timer/Counter Status in Bit Mode

Description of this command:

Writes the Ys/Cs/stage status and timer/counter status values in bit mode.

Methods used to run this command:

Digital Output

Number of points accepted by this command:

1-8

Meaning of the DriverP0 parameter:

Indicates the station number (1-223).

Meaning of the DriverP1 parameter:

51

Meaning of the DriverP2 parameter:

Start address. In this case HMITalk1.DriverP2 must have a value according to:

- GY : from 0 to 256 (GY0000 to GY3777)
- Y : from 257 to 296 (Y000 to Y477)
- C : from 385 to 444 (C000 to C737)
- Stage : from 641 to 688 (S000 to S577)

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- Timer Status : from 769 to 784 (T000 to T177)
- Counter Status: from 833 to 848 (CT000 to CT177)

Meaning of the DriverP3 parameter:

0

Write Input/Output and Binary Mode

Description of this command:

Writes the input/output values in word and binary mode.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1-125

Meaning of the DriverP0 parameter:

Indicates the station number (1-223).

Meaning of the DriverP1 parameter:

51

Meaning of the DriverP2 parameter:

Start address. HMITalk1.DriverP2 must have the 8 bit- "package number" accessed, where:

Meaning of the DriverP2 parameter:

$(n/8)+1$, where "n" is the I/O bit number (decimal) which heads each PLC group of 8 bits. For example: for the group of I/O bits from 136 to 143 (dec.):

Meaning of the DriverP2 parameter:

$(136/8)+1=18$

Meaning of the DriverP3 parameter:

0

Write Scratch Pad Memory in Binary Mode

Description of this command:

Writes the scratch pad memory values in binary mode.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1-125

Meaning of the DriverP0 parameter:

Indicates the station number (1-223).

Meaning of the DriverP1 parameter:

54

Meaning of the DriverP2 parameter:

Start address.

Meaning of the DriverP3 parameter:

0

Write Ladder Memory in Binary Mode

Description of this command:

Writes the ladder memory values in binary mode.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1-125

Meaning of the DriverP0 parameter:

Indicates the station number (1-223).

Meaning of the DriverP1 parameter:

55

Meaning of the DriverP2 parameter:

Start address.

Meaning of the DriverP3 parameter:

0

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Write Communication Errors in Binary Mode

Description of this command:

Writes the communication errors values in binary mode.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1-125

Meaning of the DriverP0 parameter:

Indicates the station number (1-223).

Meaning of the DriverP1 parameter:

57

Meaning of the DriverP2 parameter:

Start address.

Meaning of the DriverP3 parameter:

0

Write Input/Output in Bit Mode

Description of this command:

Writes the input/output values in bit mode.

Methods used to run this command:

Digital Output

Number of points accepted by this command:

1-8

Meaning of the DriverP0 parameter:

Indicates the station number (1-223).

Meaning of the DriverP1 parameter:

89

Meaning of the DriverP2 parameter:

Start address. HMITalk1.DriverP2 must have the 8 bit- "package number" accessed, where:

Meaning of the DriverP2 parameter:

$(n/8)+1$, where "n" is the I/O bit number (decimal) which heads each PLC group of 8 bits. For example: for the group of I/O bits from 136 to 143 (dec.):

Meaning of the DriverP2 parameter:

$(136/8)+1=18$

Meaning of the DriverP3 parameter:

0

Read Timer/Counter/Accumulator and V-Memory in BCD Mode

Description of this command:

Reads the timer/counter/accumulator and V-Memory values in BCD mode.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-128

Meaning of the DriverP0 parameter:

Indicates the station number (1-223).

Meaning of the DriverP1 parameter:

49

Meaning of the DriverP2 parameter:

Start address. In this case HMITalk1.DriverP2 must have a value according to:

- TMR : from 1 to 128 (V00000 to V00177)
- CNT : from 513 to 640 (V01000 to V01177)
- V Memory: from 769 to 4096 (V01400 to V07777)

Meaning of the DriverP3 parameter:

1

Read Remote Input/Xs/Cs/Ys and Stage Status in BCD Mode

Description of this command:

Reads the remote input/Xs/Cs/Ys and stage status values in BCD mode.

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Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-128

Meaning of the DriverP0 parameter:

Indicates the station number (1-223).

Meaning of the DriverP1 parameter:

49

Meaning of the DriverP2 parameter:

Start address. In this case HMITalk1.DriverP2 must have a value according to:

- GX : from 16385 to 16416 (V40000 to V40037)
- X : from 16641 to 16660 (V40400 to V40423)
- Y : from 16705 to 16724 (V40500 to V40523)
- C : from 16769 to 16798 (V40600 to V40777)
- Stage Status: from 16897 to 16920 (V41000 to V41027)

Meaning of the DriverP3 parameter:

1

Read Timer Status/Counter Status/Special Relay 1 and Special Relay 2 in BCD Mode

Description of this command:

Reads the timer status/counter status/special relay 1 and special relay 2 values in BCD mode.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-128

Meaning of the DriverP0 parameter:

Indicates the station number (1-223).

Meaning of the DriverP1 parameter:

49

Meaning of the DriverP2 parameter:

Start address. In this case HMITalk1.DriverP2 must have a value according to:

- TMR Status : from 16961 to 16968 (V41100 to V41107)
- CNT Status : from 16993 to 17000 (V41140 to V41147)
- Spec.Relay 1: from 17025 to 17030 (V41200 to V41205)
- Spec.Relay 2: from 17039 to 17049 (V41215 to V41230)

Meaning of the DriverP3 parameter:

1

Read Input/Output in Words and BCD Mode

Description of this command:

Reads the input/output values in word and BCD mode.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-250

Meaning of the DriverP0 parameter:

Indicates the station number (1-223).

Meaning of the DriverP1 parameter:

51

Meaning of the DriverP2 parameter:

Start address. HMITalk1.DriverP2 must have the 8 bit- "package number" accessed, where:

Meaning of the DriverP2 parameter:

$(n/8)+1$, where "n" is the I/O bit number (decimal) which heads each PLC group of 8 bits. For example: for the group of I/O bits from 136 to 143 (dec.):

Meaning of the DriverP2 parameter:

$(136/8)+1=18$

Meaning of the DriverP3 parameter:

1

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Read Scratch Pad Memory in BCD Mode

Description of this command:

Reads the scratch pad memory values in BCD mode.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-128

Meaning of the DriverP0 parameter:

Indicates the station number (1-223).

Meaning of the DriverP1 parameter:

54

Meaning of the DriverP2 parameter:

Start address.

Meaning of the DriverP3 parameter:

1

Read Ladder Memory in BCD Mode

Description of this command:

Reads the ladder memory values in BCD mode.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-128

Meaning of the DriverP0 parameter:

Indicates the station number (1-223).

Meaning of the DriverP1 parameter:

55

Meaning of the DriverP2 parameter:

Start address.

Meaning of the DriverP3 parameter:

1

Read Communication Errors in BCD Mode

Description of this command:

Reads the communication errors values in BCD mode.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-128

Meaning of the DriverP0 parameter:

Indicates the station number (1-223).

Meaning of the DriverP1 parameter:

57

Meaning of the DriverP2 parameter:

Start address.

Meaning of the DriverP3 parameter:

1

Write Timer/Counter/Accumulator and V-Memory in BCD Mode

Description of this command:

Writes the timer/counter/accumulator and V-Memory values in BCD mode.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1-125

Meaning of the DriverP0 parameter:

Indicates the station number (1-223).

Meaning of the DriverP1 parameter:

49

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Meaning of the DriverP2 parameter:

Start address. In this case HMITalk1.DriverP2 must have a value according to:

- TMR : from 1 to 128 (V00000 to V00177)
- CNT : from 513 to 640 (V01000 to V01177)
- V Memory: from 769 to 4096 (V01400 to V07777)

Meaning of the DriverP3 parameter:

1

Write Remote Input/Xs/Cs/Ys and Stage Status in BCD Mode

Description of this command:

Writes the remote input/Xs/Cs/Ys and stage status values in BCD mode.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1-125

Meaning of the DriverP0 parameter:

Indicates the station number (1-223).

Meaning of the DriverP1 parameter:

49

Meaning of the DriverP2 parameter:

Start address. In this case HMITalk1.DriverP2 must have a value according to:

- GX : from 16385 to 16416 (V40000 to V40037)
- X : from 16641 to 16660 (V40400 to V40423)
- Y : from 16705 to 16724 (V40500 to V40523)
- C : from 16769 to 16798 (V40600 to V40777)
- Stage Status: from 16897 to 16920 (V41000 to V41027)

Meaning of the DriverP3 parameter:

1

Write Timer Status/Counter Status/Special Relay 1 and Special Relay 2 in BCD Mode

Description of this command:

Writes the timer status/counter status/special relay 1 and special relay 2 values in BCD mode.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1-125

Meaning of the DriverP0 parameter:

Indicates the station number (1-223).

Meaning of the DriverP1 parameter:

49

Meaning of the DriverP2 parameter:

Start address. In this case HMITalk1.DriverP2 must have a value according to:

- TMR Status : from 16961 to 16968 (V41100 to V41107)
- CNT Status : from 16993 to 17000 (V41140 to V41147)
- Spec.Relay 1: from 17025 to 17030 (V41200 to V41205)
- Spec.Relay 2: from 17039 to 17049 (V41215 to V41230)

Meaning of the DriverP3 parameter:

1

Write Input/Output in Words and BCD Mode

Description of this command:

Writes the input/output values in word and BCD mode.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1-125

Meaning of the DriverP0 parameter:

Indicates the station number (1-223).

Meaning of the DriverP1 parameter:

51

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Meaning of the DriverP2 parameter:

Start address. HMITalk1.DriverP2 must have the 8 bit- "package number" accessed, where:

Meaning of the DriverP2 parameter:

$(n/8)+1$, where "n" is the I/O bit number (decimal) which heads each PLC group of 8 bits. For example: for the group of I/O bits from 136 to 143 (dec.):

Meaning of the DriverP2 parameter:

$(136/8)+1=18$

Meaning of the DriverP3 parameter:

1

Write Scratch Pad Memory in BCD Mode

Description of this command:

Writes the scratch pad memory values in BCD mode.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1-125

Meaning of the DriverP0 parameter:

Indicates the station number (1-223).

Meaning of the DriverP1 parameter:

54

Meaning of the DriverP2 parameter:

Start address.

Meaning of the DriverP3 parameter:

1

Write Ladder Memory in BCD Mode

Description of this command:

Writes the ladder memory values in BCD mode.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1-125

Meaning of the DriverP0 parameter:

Indicates the station number (1-223).

Meaning of the DriverP1 parameter:

55

Meaning of the DriverP2 parameter:

Start address.

Meaning of the DriverP3 parameter:

1

Write Communication Errors in BCD Mode

Description of this command:

Writes the communication errors values in BCD mode.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1-125

Meaning of the DriverP0 parameter:

Indicates the station number (1-223).

Meaning of the DriverP1 parameter:

57

Meaning of the DriverP2 parameter:

Start address.

Meaning of the DriverP3 parameter:

1

[Equivalence with PLCs Series 305] (allows you to set combined networks)

Commands with HMITalk1.DriverP1 = 49:

Series 305 Series 405 ----- ----- R600 to R677 V000 to V077 R400 to R577
V100 to V177

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Two PLC 305 Data Register bytes correspond to one PLC 405 word in the V-Memory. Example:
V100 <----> R401 R400 (MSB) (LSB)
Commands with HMITalk1.DriverP1 = 51: See Host-Link Protocol Manual 4-12, 4-13 y 4-14.

Equivalence with PLCs Series 305

Error messages

The following list shows the possible error messages that can be returned by the driver during a failed communication in the 'Status' property.

- [1005] DRIVER (Internal): Invalid driver stage
- [1300] PROTOCOL (Timeout): No answer
- [1404] PROTOCOL (Format): Error receiving acknowledge
- [1405] PROTOCOL (Format): Error receiving expected EOT
- [1406] PROTOCOL (Format): Error receiving first acknowledge
- [1407] PROTOCOL (Format): Error receiving header acknowledge
- [1420] PROTOCOL (Format): NAK or EOT received from device
- [1421] PROTOCOL (Format): Negative acknowledge received from device
- [1433] PROTOCOL (Format): Validation error in device response
- [2186] CONFIG (NumValues): Too many values (max=128)
- [2203] CONFIG (NumValues): Too many values (max=250)
- [2235] CONFIG (NumValues): Too many values (max=8)
- [3020] CONFIG (P0): Invalid device address (1-223)
- [3508] CONFIG (P1): Invalid command
- [4099] CONFIG (P2): Invalid start address
- [4543] CONFIG (P3): Invalid mode

Supported devices

This driver can communicate with these devices, but is not necessarily limited to this list:

- TEXAS INSTRUMENTS TI-425 PLC
- TEXAS INSTRUMENTS TI-430 PLC
- TEXAS INSTRUMENTS TI-435 PLC

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