Industrial communication solutions for Windows

XU9G500 Driver Manual

Honeywell UDC9000 via Gateway 500 Read Driver

Contents

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Industrial communication drivers.

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XU9G500 technical specifications

General information

XU9G500 Allows you to connect to Honeywell UDC9000 controllers, via Gateway 500, using a modified version of the transparent mode protocol for old devices.
The connection with the Gateway must be made via RS-232.

Important note:If the Gateway is configured to operate in D mode (Half Duplex), the RTS must be conveniently wired between the PC RS-232 and the Gateway RS-232. If the Gateway is configured to operate in E Mode (Duplex), the RTS pin must be shorted with the Signal Ground pin in the Gateway RS-232 (it is not necessary to short it on the PC side).

Command list

Read Register Values

Description of this command:
Reads a set of registers as floating point values.
Methods used to run this command:
Analog Input / Digital Input
Number of points accepted by this command:
1-60
Meaning of the DriverP0 parameter:
Station address (1-31).
Meaning of the DriverP1 parameter:
0
Meaning of the DriverP6 parameter:
Indicates the addresses for the elements to be read. Each address is separated by a comma delimiter (i.e.:4096,5000,5002).

Read Configuration Values

Description of this command:
Reads a set of configuration values as floating point values.
Methods used to run this command:
Analog Input / Digital Input
Number of points accepted by this command:
1-60
Meaning of the DriverP0 parameter:
Station address (1-31).
Meaning of the DriverP1 parameter:
1
Meaning of the DriverP6 parameter:
Indicates the addresses for the elements to be read. The address is a XYYY parameter, where:
- X = Control Block Parameter.
- YYY = Control Block Number. Each address is separated by a comma delimiter (i.e.:1200,1202,1208).

Read Operational Values

Description of this command:
Reads a set of operational values as floating point values.
Methods used to run this command:
Analog Input / Digital Input
Number of points accepted by this command:
1-60
Meaning of the DriverP0 parameter:
Station address (1-31).

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Meaning of the DriverP1 parameter:

2

Meaning of the DriverP6 parameter:

Indicates the addresses for the elements to be read. The address is a XYYY parameter, where:

- X = Control Block Parameter.
- YYY = Control Block Number. Each address is separated by a comma delimiter (i.e.:1200,1202,1208

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
[1433] PROTOCOL (Format): Validation error in device response
[2227] CONFIG (NumValues): Too many values (max=60)
[2238] CONFIG (NumValues): Too many values (max=82)
[3024] CONFIG (P0): Invalid device address (1-31)
[3508] CONFIG (P1): Invalid command
[8048] CONFIG (Remote): Checksum protocol indicates a problem
[8092] CONFIG (Remote): Device addressed is busy auto tuning
[8093] CONFIG (Remote): Device addressed is busy with an upload or download
[8098] CONFIG (Remote): Device cannot communicate and did not perform the operation
[8099] CONFIG (Remote): Device cannot perform requested operation in current mode
[8101] CONFIG (Remote): Device has received invalid data and did not perform the operation
[8102] CONFIG (Remote): Device has re-initialized and did not perform the operation
[8103] CONFIG (Remote): Device is busy and did not perform the operation
[8153] CONFIG (Remote): Gateway did not get a response from the device
[8154] CONFIG (Remote): Gateway does not support this operation
[8155] CONFIG (Remote): Gateway's self-tests found problems
[8194] CONFIG (Remote): Invalid data
[8203] CONFIG (Remote): Length protocol indicates a problem
[8304] CONFIG (Remote): Request has invalid format
[8305] CONFIG (Remote): Request has more than 512 characters
[8309] CONFIG (Remote): Response has more than 512 characters
[8356] CONFIG (Remote): Unknown status code returned
[8357] CONFIG (Remote): Upload operation is complete
[8358] CONFIG (Remote): Upload or download command has failed

Supported devices

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

HONEYWELL UDC9000 Universal Digital Controllers Via Gateway 500

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