

Connecting UniOP to Bosch Rexroth Controllers via SIS Ethernet

This document describes the basic steps to follow in order to get a successful connection between UniOP and Rexroth/Indramat controllers using the SIS Ethernet communication protocol. The “SIS Ethernet” protocol is associated to the Designer file D32Uplc202.dll.

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1 Designer Configuration

To select the SIS Ethernet communication protocol, open the “Configure Controller” dialog box from the Project Menu. In the list of the available drivers select the “SIS Ethernet” communication protocol.

1.1 Designer Controller Setup

The Designer Controller Setup dialog box is shown in Figure 1.

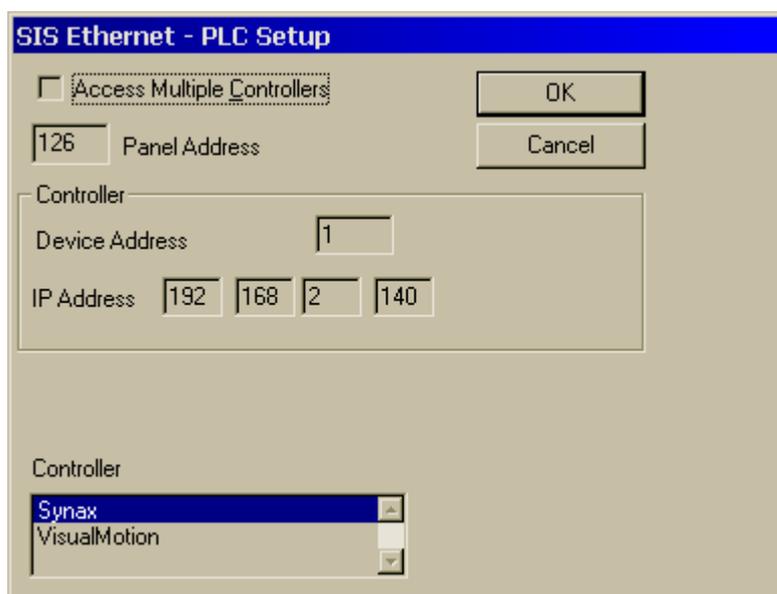


Figure 1– Controller Setup dialog box

The “Panel Address” is the node ID assigned to the UniOP panel; data in the “Controller” box allows to properly identify the Device Addresses and IP Address of the controller.

Current implementation of the communication protocol supports the Synax and the Visual Motion operating modes of the Indramat controllers.

2 Data Types

Depending of the controller model type selected, different data types will be available for use as controller references in the Data Field dialog box.

2.1 Syntax

For Syntax models the following data types are available:

Name
A parameters
C parameters
P parameters
S parameters
Y parameters

2.2 VisualMotion

For VisualMotion the following data types are available:

Name
Register
Program Integer
Program Float
A parameters
C parameters
P parameters
S parameters
T parameters

Appendix A. Communication Error Codes

Current communication status is displayed on the system page of the UniOP. Beside the string describing current state of the communication (OFF, ON, ERR), there is an additional error code representing the last (which may be not the current one) error encountered. The codes are:

Code	Description	Notes
0	No error	There are no communication errors and there have been no errors since start-up.
4	Negative acknowledgment	The controller reported an error in the Status byte of the response frame
5	Time out	No response received from the controller within the timeout period.
7	General communication error	Software error. Contact the manufacturer.
9	Sending time out error	The panel was not able to initiate communication in a given time.
10	Checksum error	An error in response frame: bad checksum
12	Response error	An error in response frame: illegal formed response

Appendix B. Hardware requirements

In order to use the SIS Ethernet driver the panel requires either the SCM11 or the SCM11-C communication modules.