

DRIVER TYPES

	COMM
NT	6.50
Win 2000	6.50
XP	6.50

SUPPORTED HARDWARE

EXOMATIC modules.

PROTOCOL

Direct and called lines.

SUPPORTED MESSAGES/DATA AREAS

- Read/Write variables
- Read/Write pseudo variables
- Analog and digital historical data are written to ASCII labdata files which are imported to L24 files.

Variables has the following name syntax:

Syntax	Description
<i>Module.VPac.Variable</i>	A named variable
<i>Module.VPac.Variables("Cell", "Type"</i>)	A variable of given datatype with a numerically determined cell number
<i>Module.VPac.(Page).Variable</i>	A variable on a numerically determined page
<i>Module.BPac.Posts(Post).Field</i>	A value in a named field in a numerically determined post
<i>Module.BPac.Posts(Post).Fields(Fieldnr)</i>	A value in a named field in a numerically determined post
<i>Module.BPac.Values(Position, "Type"</i>)	A value of a given datatype in a numerically determined position.
<i>Module.Text.Variable</i>	A named string variable
<i>Module.Texts(Ln)</i>	A string variable with numerically determined load number.
<i>Module.Task.Variable</i>	A named local variable
<i>Module.Task.Variables(Cell, "Type"</i>)	A local variable of a given datatype with numerically determined cell number.
<i>Module.Variable</i>	A named variable in a module global VPac

The pseudo variables are described below:

Syntax	Description
<i>Module.Alarmvariablename.State</i>	Used to read alarm from the EXOMATIC modules.
<i>Module.Alarmvariablename.Status</i>	Used to read if the alarm variable is blocked in the module.
<i>Module.Connect</i>	Used to connect to or disconnect a module. 1 = connect 0 = disconnect
<i>Module.ConnectStatus</i>	Shows the status of the connection to the module. 0 = idle 1 = connected

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	2 or higher = different error codes
<i>Module.ComErr.State</i>	An alarm if the module can not be reached.
<i>Module.ComErr.Status</i>	Used to read if the alarm variable is blocked in the module.

DATA

TYPES

In EXOMATIC	In FIX
L (boolean)	Digital (0, 1)
X (0 – 255)	Unsigned Integer (0 - 65535)
I (-32767 - 32767)	Signed Integer (-32768 - 32767)
R (IEEE 32 bit float)	Float (IEEE 32 bit float)
\$ (String 0 -110 characters OEM 850)	Text (ANSI 0 -80 characters)
Alarmpoint in AlarmScanProgram	Alarm (0/1 + date and time)
Alarmstatus in AlarmScanProgram	Unsigned Integer (0 - 65535)
Module.ComErr.State	Alarm (0/1 + date and time)
Module.ComErr.Status	Unsigned Integer (0 - 65535)
Module.Connect	Digital (0/1)
Module.ConnectStatus	Unsigned Integer (0 - 65535)

REQUIRED VENDOR SOFTWARE

Software from EXOMATIC is needed to configure the EXOMATIC project and to communicate with the modules.

SIGNAL CONDITIONING

NONE	No Signal Conditioning
LIN	16 Bit Binary Scaled to EGU
12BN	12 Bit Binary No Range Check
12AL	12 Bit Binary Range Check
15BN	15 Bit Binary No Range Check
15AL	15 Bit Binary Range Check
8BN	8 Bit Binary Scaled t EGU
3BCD	3 Digit Binary Coded Decimal
4BCD	4 Digit Binary Coded Decimal

COMMUNICATIONS PERFORMANCE

Not specified at this state.

GENERAL LIMITATIONS

The EXOMATIC I/O driver shall be started automatic when FIX is started and stopped when FIX is shut down.

- The driver can not be started and stopped from Mission Control.
- The IOCNTL.EXE program must be before the WSACTASK.EXE program in the Task Configuration.

MANUAL

DEMO

COMMENTS

The variable names are entered in the I/O address field of database blocks. The Database Builder checks the variable name you entered with the configuration in the EXOMATIC project. If the variable does not correspond

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to a configured variable, the Database Builder shows the variable name UNDEFINED. If the variable corresponds to a configured variable, the Database Builder shows the variable name that was entered.

The variables “Module.Alarmpointname.State“ and “Module.ComErr.State“ shall be used with the database block type “EDA - EXOMATIC Digital Alarm“ with scan time set to “E“. This block type reads the alarmstate (0/1) and the date and time when the alarm occurred in the module. The date and time read from the alarm are the date and time shown in alarm summary and in the alarm list.

The Number of EXOMATIC modules in a typical large project are about 100.

NOTE! *If you are upgrading from version 6.0 of the I/O driver to version 6.50 or later you must first export your database to a GDB file. After that you can install the new I/O driver, start up FIX with an empty database (not empty.pdb) and then import the GDB file.*

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