

# Telefrang SIOXII I/O Driver

## DRIVER TYPES

	COMM	RES	CFE	ACE
<b>DOS</b>				
<b>WIN</b>				
<b>NT</b>	6.00-7			
<b>WIN 2000</b>	6.00-7			
<b>XP</b>	6.00-7			

## SUPPORTED HARDWARE

Supports communication on RS232 to the RS232/SIOX converter K30. Supports Telefrang modules and SVM modules 690, 820, 940 and D4.

## PROTOCOL

Half duplex protocol where the FIX is the master and the modules are slaves.

Direct Link	
Multi-drop	X
Communication Network	

Baud Rate, Parity, Stop Bits, Data Bits: User Definable.

Support for 63 Devices per serial link without repeater R30.

Support for X \* 60 Devices with repeaters R30, where X is number of R30s. 1 =< X =< 63

Up to 8 serial ports are supported through DigiBoard or RIC card.

## SUPPORTED MESSAGES/DATA AREAS

Read and write of :

RAM and EEPROM parameters in SETUPMOD.

Text in TEXTMOD.

Parameters in DATAMOD1 and DATAMOD2.

Read of :

SVM690/820/940/D4 modules values in TEXTMOD

## DATA TYPES

<b>SETUPMOD</b>	16 bit parameters in module
<b>TEXTMOD</b>	8 bit characters text
<b>DATAMOD</b> <b>1</b>	Read 16 bit parameters in module. Sends 1 byte.

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<b>DATAMOD</b> 2	Read 16 bit parameters in module. Sends 2 bytes
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## REQUIRED VENDOR SOFTWARE

None....

## SIGNAL CONDITIONING

Option		Scaling	Notes
LIN (SETUPMOD, DATAMODE 1,2)	Input, Output	0 - 65535	Scaled to EGU range in the block. No Range checking Alarming.
LIN (TEXTMODE)	Input	0 - 4294967295	Scaled to EGU range in the block. No Range checking Alarming.
SLIN	Input, Output	-32768 - 32767	Scaled to EGU range in the block. No Range checking Alarming.
LSB	Input, Output	0-255	Least significant byte of parameter scaled to EGU range in database block.
MSB	Input, Output	0-255	Most significant byte of parameter scaled to EGU range in database block.
WORD	Input, Output	0-65535	Parameter of 16 bits scaled to EGU range in database block.
DBLE	Input, Output		Parameter that consists of two 16 bits words. Ignores EGU range in database block. Use only in SETUPMOD.
AUTO	Input		Auto scaling for TEXTMOD

## COMMUNICATIONS PERFORMANCE

In SETUPMOD it can handle 16 messages/second at 4800 baud. Thus 16 analog signals or 16\*16=256 digital signals per second.

In TEXTMOD it can handle up to 80 characters in one message.

In DATAMOD1 it can handle up to 16 messages/second at 4800 baud. This can only be used if you on a analog module use one single address, over which all channels can be requested. In any other case for DATAMOD1 it only reads one value/message.

In DATAMOD2 it only reads one value/message.

## GENERAL LIMITATIONS

You can not use Analog and Digital Registers in the database together with DATAMOD1 and DATAMOD2. Because in DATAMOD1 and DATAMOD2 you must write to the module to get values to read. The value you write is not the same that the module answers with.

NOTE! Beware of the following problems when using the Telefrang M11 terminal together with the SIOX driver. Texts written down to the terminal are not returned when reading from the terminal. The texts returned from the terminal are the texts that are written on the terminal buttons. Texts to e.g. clear the display can't be sent from text blocks in the database.

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## MANUAL

## DEMO

## COMMENTS

The RS232 cable from the PC to the RS232/SIOX converter K30 must contain either RTS or DTR, but preferably both to be sure, to power supply the K30.

Since the protocol doesn't support bit writes, data words containing information that both is changed from FIX and from the PLC is not recommended. Use dedicated words for output or input.

When communicating with SVM heatmeters the baud rate is 300. There must be configured great timeouts. This is because that if the heatmeters need to read a value it can break the communication before it has given a completely answer

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