

## DRIVER TYPES

	COMM	RES	CFE	ACE
<b>DOS</b>	4.23-3		4.23-3	2.40
<b>WIN</b>	5.31-3		4.23-3	
<b>Win NT 4.0</b>	6.00-7			
<b>Win 2000</b>	6.00-7			
<b>Win XP</b>	6.00-7			

## SUPPORTED HARDWARE

ABB Masterpiece 100  
ABB Masterpiece 200

## PROTOCOL

Direct Link	
Multi-drop	X
Communication Network	

Baud Rate, Parity, Stop Bits, Data Bits: User Definable.  
Support for 256 Devices per serial link.  
Up to 8 serial ports are supported through DigiBoard or RIC card.

## SUPPORTED MESSAGES/DATA TYPES

Read/Write Data Set Value  
Read/Write DAT File Value  
Read Value and Status from AI, AO, DI and DO Files.

## DATA TYPES

<b>UNSIGNED</b>	16 Bit Unsigned Integer
<b>FLOAT</b>	32 Bit Floating Point Value (IEEE)
<b>LONG</b>	32 Bit Signed Integer Stored in Floating Point Format (IEEE)
<b>BOOLEAN</b>	32 Bit Digital Information Stored in 32 Bit Unsigned Integer

**Headoffice Sweden**  
Novotek Sverige AB  
Box 16014  
(Industrigatan 39)  
SE-200 25 Malmö  
Phone +46-40-671 8900  
Fax +46-40-94 7617  
E-mail: info@novotek.se

**Denmark**  
Novotek APS  
  
Naverland 2  
DK-2600 Glostrup  
Phone +45-4343 3717  
Fax +45-4343 5225  
E-mail: info@novotek.dk

**Norway**  
Novotek AS  
  
Pb 2036  
N-3255 Larvik  
Phone +47-3316 5800  
Fax +47-3316 5801  
E-mail: info@novotek.no

**Germany**  
Novotek GmbH  
P.O. box 230  
Rendsburger Strasse 10-12  
DE-30659 Hannover  
Phone +49-511 6101 740  
Fax +49-511 6101 7474  
E-mail: info@novotek.de

**Finland**  
Dosesoft Oy  
  
Torpankatu 28  
SF-05801 Hyvinkää  
Phone +358 1987 1131  
Fax +358 3253 2750  
E-mail: info@dosesoft.fi

**Retailer in Iceland**  
Logic EHF  
  
Nethyl 2  
IS-110 Reykjavik  
Phone +354-577 5560  
E-mail: johann@logic.is

## REQUIRED VENDOR SOFTWARE

None.

## SIGNAL CONDITIONING

<b>NONE</b>	No Signal Conditioning
<b>LIN</b>	16 Bit Binary Scaled to EGU
<b>12BN</b>	12 Bit Binary No Range Check
<b>12AL</b>	12 Bit Binary Range Check
<b>15BN</b>	15 Bit Binary No Range Check
<b>15AL</b>	15 Bit Binary Range Check
<b>3BCD</b>	3 Digit Binary Coded Decimal
<b>4BCD</b>	4 Digit Binary Coded Decimal

## MANUAL

## DEMO

**Headoffice Sweden**  
 Novotek Sverige AB  
 Box 16014  
 (Industrigatan 39)  
 SE-200 25 Malmö  
 Phone +46-40-671 8900  
 Fax +46-40-94 7617  
 E-mail: info@novotek.se

**Denmark**  
 Novotek APS  
 Naverland 2  
 DK-2600 Glostrup  
 Phone +45-4343 3717  
 Fax +45-4343 5225  
 E-mail: info@novotek.dk

**Norway**  
 Novotek AS  
 Pb 2036  
 N-3255 Larvik  
 Phone +47-3316 5800  
 Fax +47-3316 5801  
 E-mail: info@novotek.no

**Germany**  
 Novotek GmbH  
 P.O. box 230  
 Rendsburger Strasse 10-12  
 DE-30659 Hannover  
 Phone +49-511 6101 740  
 Fax +49-511 6101 7474  
 E-mail: info@novotek.de

**Finland**  
 Dosesoft Oy  
 Torpankatu 28  
 SF-05801 Hyvinkää  
 Phone +358 1987 1131  
 Fax +358 3253 2750  
 E-mail: info@dosesoft.fi

**Retailer in Iceland**  
 Logic EHF  
 Nethyl 2  
 IS-110 Reykjavik  
 Phone +354-577 5560  
 E-mail: johann@logic.is

### COMMUNICATIONS PERFORMANCE

The protocol is an ASCII protocol. The throughput is of course depending on the Masterpiece load, but it can handle, at the best, 2 full (24 objects) messages/second at 9600 baud. Thus  $2*24=48$  analog signals or  $2*24*32=1536$  boolean signals per second.

### GENERAL LIMITATIONS

The EXCOM I/O drive allows reads of up to 24 data elements. In some cases this is not handled by the Masterpiece, thus start with shorter messages when doing I/O configurations. Also note that reads of Data Sets require the VALID flag to be set in the DAT object. The number of objects read in one poll record must also correspond to the number of objects defined in the Masterpiece.

Masterpiece 100 only supports a subset of the EXCOM protocol. Check with ABB for these limitations.

### COMMENTS

To connect to an ABB Masterpiece 200, the physical communication layer is performed via a PC serial RS232 link connected to an ABB Masterpiece 200 through the ABB Connection Unit DSTC 120, which is connected to the Communication Board DSCA 114 by use of the cable for Masterpiece 200 DSTK 152. A direct connection can be made up to 10 meters, else the KM-1D Short-Distance Modem should be used.

If the EXCOM driver is to be connected to an ABB Masterpiece 100, it first goes through the MasterGate 210 before accessing the Masterpiece 100.

Backup port is supported at channel level, and backup node is supported on device level.

The driver can access information from network 0 to 99, node 0 to 99, dataset 1 to 127 or file (DAT, DI, DO, AI and AO) objects 1 to 32767. The status and value of the AI, AO, DI and DO files can be read.

A maximum of 256 devices and 65535 poll records can be defined for the driver.

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(Industrigatan 39)  
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