

TREND Network System I/O Driver (Called and Direct)

DRIVER TYPES

	COMM	RES	CFE	ACE
DOS				
WIN	4.23-2			
NT	6.00-6			
Win 2000	6.00-6			
XP	6.00-6			

SUPPORTED HARDWARE

Communication through CNC to TREND IQs in direct link

Communication through ANC and CNC to TREND IQs in called connections.

PROTOCOL

Direct Link	X
Multi-drop	X
Communication Network	

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

Support for 127 Devices per serial link.

Up to 8 serial ports are supported through DigiBoard.

SUPPORTED MESSAGES/DATA AREAS

Read/Write messages to ANALOG and DIGITAL ARRAY via Random Communications.

Read of Text alarms with support of RDA blocks for remote time. The types are D_INPUT, DRIVER, GENERAL, SENSOR, LOOP, SCHEDULE.

Read of Critical alarms with support of RDA blocks for remote time.

Read of log and extended log data in the driver with modem support.

Read and write of Zone times through TXT blocks in the database.

Set date and time in the controllers.

DATA TYPES

ANALOG	32 Bit Floating Point Value (IEEE)
DIGITAL	8 Bit Digital Information

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D_INPUT, DRIVER, GENERAL, SENSOR, LOOP, SCHEDULE, CRITICAL	OPEN = no alarm CLOSE = alarm
ZONE	Text data
LOG_SENSOR	Log data from sensors
EXTENDED_LOG	Extended log data from sensors. This format was introduced in the TREND IQ 251 Issue 1/1.
TIME_SYNC	Set Date and Time in the controller.

REQUIRED VENDOR SOFTWARE

None

SIGNAL CONDITIONING

N/A

COMMUNICATIONS PERFORMANCE

The driver can read max 16 ANALOG values and max 24 DIGITAL values in one message.

GENERAL LIMITATIONS

The driver does not support Attribute(Text) communications.

The alarms are not reported with values that's why all alarms are treated as digital in the driver.

MANUAL

DEMO

COMMENTS

In called connections there must be a CNC and a ANC both at the Fix and TREND IQ end.

In called connections the ANC, at the TREND IQ end, has to be set up with its own telephone number. This telephone nr string must be exactly the same as that telephone nr string that was set up in the driver configuration. The alarms in the TREND IQ must be set up to be reported to the FIX in text format.

If the driver receives an alarm that not is configured in the driver it will send an acknowledge to the TREND IQ and send a text to Alarm History and the Alarm printer that the alarm was not found in its configuration. The alarms received contains a information text about the alarm. This text is written out to Alarm History and the Alarm printer when the alarm has been acknowledged by the driver.

The larger the network of TREND IQs to connect to the larger the response time of a single TREND IQ. Therefore the reply timeout in the channel configuration might have to be increased as the system grows.

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