

ITT Flygt AquaCom (MACTEC) OPC Server

FAC

DRIVER TYPES

	COMM
NT 4.0	7.16-2
W 2000	7.16-2
XP	7.16-2

SUPPORTED HARDWARE

The FAC I/O server supports MACTEC Forth RTUs.

The server has been tested with three types of modems. These are Westermo TD-22, US Robotics Sportster and US Robotics Courier.

The Westermo TD-22 modem can be used for the following communication modes:

- V.23 1200bps, half duplex dialed lines
- V.22 Hayes 1200bps dialed lines
- V.23 1200bps, half duplex fixed lines

US Robotic Sportster and Courier modems can be used for dialed lines to communicate with MACTEC RTUs that support Hayes modems, e.g. FMC200.

PROTOCOL

Dialed Up Lines	When dialed up lines are used the FAC I/O server is triggered to call the RTU when communication is needed. The RTU calls the FAC I/O server when an alarm has occurred. Older versions of RTUs are using V.23 modems while newer versions are using Hayes modems. If the FAC I/O server shall be able to communicate with both old and new RTUs via dialed lines then the FAC I/O server has to be set up with two channels where one is connected to a V.23 modem and the other to a Hayes modem.
Fixed Lines	With fixed lines the RTUs are connected in a multidrop net. A plain RS232 interface may also be used with a null modem cable.

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

SUPPORTED MESSAGES/DATA AREAS

The FAC I/O server supports the following parts of the AquaCom protocol:

Connection message (OK) – Used with dialed lines. The answering unit is sending an OK before communication begins.

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Alarm Request (WCA) – Used to get alarm messages from the RTU. The answer is either a no alarms message (ALN) or an alarm is pending message (ALR). If an alarm is pending message (ALR) is returned then the server sends out an alarm acknowledge message (ALO).

Function Channels (MCC) – Used to set/read the function channel values in the RTU. In order to read function channels from a RTU you must first set their values. It is not possible to read settings from a cold started RTU. All function channels values are set in one message.

Analogue Channels (MAS) – Used to set/read the analogue channel values in the RTU. In order to read analogue channels from a RTU you must first set their values. It is not possible to read settings from a cold started RTU. All analogue channels values are set in one message.

Alarm Code Priority (SLT) – Used to set the priority for a specified alarm code in the RTU.

Status Request (WGS) – Used to read measure point values from a specified picture in a RTU. Also used to make remote control of a RTU.

Periodical Report (WGD) – Used to read yesterdays report data from a number of measuring points in a RTU.

Historical Trend (WGH) – Used to read historical trend data from a number of measuring points in a RTU. The historical trend data will be saved to ASCII files that can be evaluated later.

COMMENTS

The alarm time read from the RTU will be the time reported in the FIX alarm list if you are using iFix v2.5 or later.

MANUAL

DEMO

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