

Tour & Andersson TALME I/O Driver

TA7

DRIVER TYPES

	COMM	CFE
DOS	4.23-2	4.23-2
WIN	5.31-1	4.23-2
NT	6.00-8	
Win 2000	6.00-8	
XP	6.00-8	

SUPPORTED HARDWARE

TA 6501 and TA 6505 on an RS 422 network and a Westermo ACCESS MA-42 modem (direct access).
TA 6501 and TA 6505 on an RS 422 network via ADU-L and SRT Uniline 2.4 modems (remote access over public phone).
TA 6505 with modem option card and SRT Uniline 2.4 modems (remote access over public phone). A TA 6505 with modem option card is considered to be one ADU-L connected to one TA 6505.
TA 6711 and TA 6781 via PLB on an RS 422 network via Westermo ACCESS MA-42 modem (direct access). <i>Note: Not tested by Novotek.</i>
TA 9000-series via KE11 on an RS 422 network and a Westermo ACCESS MA-42 modem (direct access). <i>Note: Not tested by Novotek.</i>
TA 9000-series via KE2 and SRT Uniline 2.4 modems (remote access over public phone). <i>Note: Not tested by Novotek.</i>

PROTOCOL

Direct Link	X
Multi-drop	X
Communication Network	

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

Support for 256 Devices per serial link.

Up to 8 serial ports are supported through DigiBoard card.

Remote telephone link is established through SRT 2.4 modems.

SUPPORTED MESSAGES/DATA AREAS

Read and write variables:	FLOAT	3 bytes floating point (MV, SV, IFV, RV, TL, AO)
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	INTEGER	2 bytes integers (CNT, RT)
	LOGICAL	logical variables in auto/manual mode (IN, LL, HL, UT, FI, ILV, TC, TG, LF)
	TIME CHANNEL	Time channels (TCS)
	VDT	weekday, date, and time (VDT)
Read variables:	ALARMTABLE	table of alarms (LARM)
	DATALOG	data log (DLOG)
	ENERGYLOG	energy log (ELOG)
Write variables:	AUTO/MANUAL	auto/manual switch on analog outputs (AM)
	TIME	set time (TID)
	DATE	set date (DAT)
	HOLIDAY	set holiday (HELG)
	RESTART	warm and cold start (START)
	PROGRAM	download of TA RTU program (PROG)

DATA TYPES

INTEGER	16 Bit Unsigned Integer
FLOAT	32 Bit Floating Point Value (IEEE)
LOGICAL	5 State Digital Information Stored in 16 Bit Unsigned Integer
ALARMTABLE	64 Digital Alarms, time stamp available for RDA blocks
DLOG	Data log
ELOG	Energy log
AUTO/MANUAL	Digital Information to set analog outputs in Auto/Manual
TIME CHANNEL	Time channels incl. start and stop time and day mask
VDT	Read weekday, time and date from RTU
TIME	Set time in RTU
DATE	Set date in RTU
HOLIDAY	Set holiday in RTU
RESTART	Set warm or cold start in RTU
PROGRAM	Load program to RTU using TAPL.EXE task and DUCPAR.PAR and DUCMIPC.PAR from Micro 7 system

REQUIRED VENDOR SOFTWARE

TA Micro 7 or equivalent.

SIGNAL CONDITIONING

NONE	No Signal Conditioning
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COMMUNICATIONS PERFORMANCE

Most messages in the TALME protocol only read one value at a time. The ALARMTABLE poll record generates one message to read 64 digital alarm states. This is recommended to use instead of LOGICAL IN, LL, HL and FI, which would take 64 messages to get the 64 alarm states. The driver will handle a maximum of 20 messages per second at 9600 baud, thus 20 signals if using FLOAT, INTEGER and LOGICAL, but 64 if

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using ALARMTABLE and 19 other values i.e. $64+19=83$ per second. For this driver it is most important to set short access times, to avoid polling information that is not needed.

GENERAL LIMITATIONS

6501 systems can usually not communicate faster than 4800 baud.

MANUAL

DEMO

COMMENTS

TA Micro 7 must be used to configure and compile the RTU parameters and programs. The resulting configuration files can be downloaded through the TA7 I/O driver.

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