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TELEMECANIQUE UNITELWAY MASTER

TELEMECANIQUE UNITELWAY SLAVE

V1.30

Information Sheet for Crimson v2.0

Compatible Devices

- TSX Micro (All)

Verified Device

- TSX 37 22001
- TSX 37 21001

Driver Selection

Select the Unitelway Master driver when no other device is to be a Master. **IMPORTANT:** See Note 1 below, describing the "Poll Only" command, if there are to be other slaves accessing the PLC.

Otherwise, select the Unitelway Slave driver. The driver only reads and writes data to a PLC. It cannot respond to requests for data.

Driver Options

Uni-Telway Master – Select 0 for "This Drop Number". Other values are for future use.
Uni-Telway Slave – Select the desired station number. Select the correct type of Uni-Telway Master that will be used, TSX or G3.

Device Options

Uni-Telway Master – Select the drop number for the slave device.
Uni-Telway Slave – Select 0 to access the Master device, otherwise select the appropriate station number for the PLC Slave.

To update previous driver versions, open the database, select the other of Master or Slave, then re-select the desired driver. This will enable the new driver/device settings.

Important Information

The Maximum value displayed in the selection dialog box does not imply the actual number of accessible points for any particular device. The programmer must be aware of the limits of the device that is to be connected.

No attempt is made to verify any data value being written. It is the responsibility of the programmer to ensure valid data are written.

Accessible Data

Prefix	Description	Access
M	Internal Memory Bits	R/W
MB	Internal Memory Bytes	R/W
MW	Internal Memory Words	R/W
MDW	Internal Double Words	R/W
MF	Internal Memory Reals	R/W
S	System Memory Bits	R/W
SB	System Memory Bytes	R/W
SW	System Memory Words	R/W
SDW	System Double Words	R/W
KW	Constant Words	Read Only
KDW	Constant Double Words	Read Only
KF	Constant Reals	Read Only
TP	PL7 Timer Preset	R/W
TV	PL7 Timer Value	Read Only
TR	PL7 Timer Running	Read Only
TD	PL7 Timer Done	Read Only
TMP	IEC Timer Preset	R/W
TMV	IEC Timer Value	R/W *
TMQ	IEC Timer Output	Read Only
CP	Counter Preset	R/W
CV	Counter Value	R/W *
CE	Counter Empty	Read Only
CD	Counter Done	Read Only
CF	Counter Full	Read Only
W	Do Not Use-Conversion Tool	N/A
P	Highest Slave Address for Master	NOTE 1

** A Timer/Counter Value write that is not accepted (e.g. timer is in reset) does not generate a communications error. The user must retry when the proper conditions exist.

A Byte write operation is performed as a write to 8 separate bits.

The W command is present to convert databases made on previous versions of the driver. W instructions from the previous version are automatically converted to MW.

NOTE 1:
P (Highest Slave Address), operates only in the Master driver. The default is 8, but P will accept values from 1 to 31. For fastest updates, assign the slaves as 1,2,…,n. In "Properties" of the first page, program "On Select" to P = n.
The PLC to which the master is assigned does not have to be included if its address is higher than all other slaves.
Performance is best if there are no gaps in the address assignments.
As circumstances require, the number can be read, and changed, while the database is running.
The command has no function in the Uni-Telway Slave.

Cable Information

Unitelway Master (Destination PLC is a Slave)

FROM RLC UNIT	NAME	RJ45	MINI-DIN 8
1	TxB	1,4	1
2	TxA	2,3	2
3	RxA	2,3	2
4	RxB	1,4	1
5	TxEN	5	-
6	Comm	6	5,7
7	TxB	7	-
8	TxA	8	-

Unitelway Slave (Destination PLC is the Master)

FROM RLC UNIT	NAME	RJ45	MINI-DIN 8
1	TxB	1,4	1
2	TxA	2,3	2
3	RxA	2,3	2
4	RxB	1,4	1
5	TxEN	5	-
6	Comm	6	-
7	TxB	7	-
8	TxA	8	-