

ART over TV

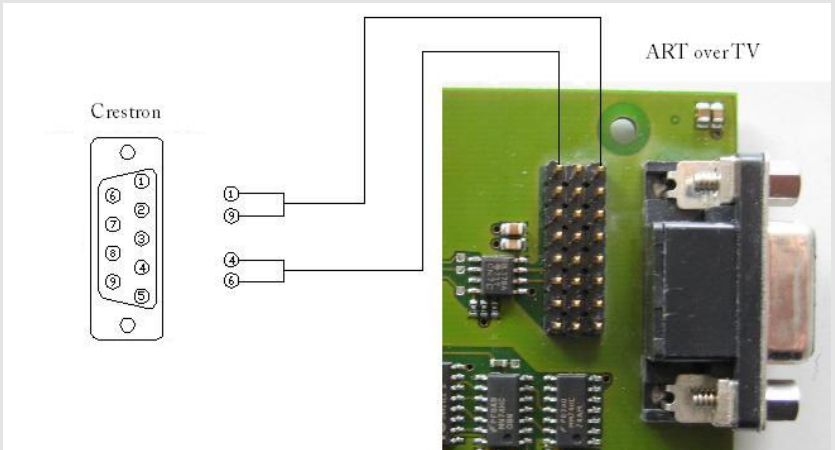
This module controls the ART over TV device



GENERAL INFORMATION

SIMPLWINDOWS NAME:	ART over TV Demo Program
CATEGORY:	Device interface
VERSION:	1.0
SUMMARY:	This module controls the ART over TV device
GENERAL NOTES:	<p>The ART over TV should be programmed at start up. As soon as you reboot it, or issue the program command, the unit will report back with its status. This status is displayed by this "ART over TV.umc" module on its "Status" serial output. The status would, for example, tell you to move the motor in the desired start position. All movements during programming should be executed by the "Clockwise", "Counter_Clockwise" and "Stop" digital inputs. Once a movement is finished, the program command should be issued to proceed to the next programming step. After the last programming step the program command will exit the programming mode and enter the runtime mode. During runtime mode only two commands are possible: "Go to start position" and "Go to end position" ("Start_position" and "End_Position" digital inputs)</p> <p>The status feedback returns the analog values 1d to 33d:</p> <ul style="list-style-type: none">1d: Power up after power failed2d: Command not allowed3d: ERROR! Faulty stop button or not connected! The motor can't move4d: ERROR! Faulty end button or not connected! The motor can't move5d: ERROR! Faulty end button (direction clockwise)! The motor can't move6d: ERROR! Faulty end button (direction counter clockwise)! The motor can't move7d: Power up, after pressing the stop button8d: Power up, after exceeding the allowed temperature9d: Power up, after exceeding the allowed no-signal current10d: Power up, after exceeding the allowed starting current11d: Power up, after exceeding the allowed traction current12d: Power up, after exceeding the allowed break current13d: The reprogramming of the start and end positions is necessary14d: Power up, after an internal error15d: The start position has to be programmed16d: Programming the start position, the motor was stopped17d: Programming the start position, the motor moves clockwise18d: Programming the start position, the motor moves counter clockwise19d: The start position has been programmed. The end position has to be programmed20d: The end position has to be programmed



	<p>21d: Programming the end position. The motor was stopped</p> <p>22d: Programming the end position. The motor moves clockwise</p> <p>23d: Programming the end position. The motor moves counter clockwise</p> <p>24d: The end position has been programmed. Detect and store an IR-code</p> <p>25d: The start and end position are too close. The end position has to be programmed again</p> <p>26d: Detect an IR-code or quit the programming mode</p> <p>27d: The programming mode was terminated. The new start and end position have to be calibrated</p> <p>28d: The motor is in the start position</p> <p>29d: The motor moves to the end position</p> <p>30d: The motor is in the end position</p> <p>31d: The motor moves to the start position</p> <p>32d: The start and end position have to be calibrated</p> <p>33d: Timeout is not yet finished. The motor can't be moved</p>
CRESTRON HARDWARE REQUIRED:	X or 2 series processor
SETUP OF CRESTRON HARDWARE:	The demo program was tested on a PRO2 with TPS-15
VENDOR FIRMWARE:	Version 3.01
VENDOR SETUP:	ART over TV
CABLE DIAGRAM:	


CONTROL:

Start_Position	D	Pulse to move the motor to the start position (only when start and end position have already been programmed)
End_Position	D	Pulse to move the motor to the end position (only when start and end position have been programmed)
Clockwise	D	Pulse to move the motor clockwise (only when in programming mode)
Counter_Clockwise	D	Pulse to move the motor counter clockwise (only when in programming mode)
Stop	D	Pulse to stop the motor (only when in programming mode)
Program	D	Issue a program command to start programming mode, move to the next programming step or exit programming mode (see general notes).
Rx	S	To be connected to the Rx of the com port

FEEDBACK:

Status	A	Analog signal representing the message the ART over TV device sends (see general notes)
Tx	S	To be connected to the Tx of the com port

TESTING:

OPS USED FOR TESTING:	v3.155.1144
COMPILER USED FOR TESTING:	2.07.22
SAMPLE PROGRAM:	ART Over TV Demo Program.smw
REVISION HISTORY:	V. 1.0