

Arcam: T32

The "Arcam T32.umc" controls a Arcam T32 tuner over RS232.



GENERAL INFORMATION	
SIMPLWINDOWS NAME:	"Arcam T32.umc"
CATEGORY:	Tuner
VERSION:	V. 1.0
SUMMARY:	The "Arcam T32.umc" controls an Arcam T32 tuner over RS232.
GENERAL NOTES:	Be aware that the T32 will send a constant stream of messages when it is in AUX(ipod) mode. The messages will be ignored by the macro. This problem will be solved in a future version of the firmware.
CRESTRON HARDWARE REQUIRED:	2 series processor.
SETUP OF CRESTRON HARDWARE:	The demo program was written for a PRO2 with a TPS-15.
VENDOR FIRMWARE:	V. 1.93
VENDOR SETUP:	Arcam T32 connected through the serial port. Serial port settings: Transfer rate: 38,400 bps 1 start bit, 8 data bits, 1 stop bit, no parity, no flow control
CABLE DIAGRAM:	RS232 cross cable.

CONTROL:		
POWER_ON_B	D	Pulse to power on the device.
POWER_OFF_B	D	Pulse to power off the device.
SOURCE_FM_B	D	Pulse to select FM.
SOURCE_DAB_B	D	Pulse to select DAB.



SOURCE_SIRIUS_B	D	Pulse to select Sirius.
SOURCE_AM_B	D	Pulse to select AM.
SOURCE_AUX_B	D	Pulse to select AUX mode.
[PRESET_X_B]	D	Pulse to select Preset X.
[PRESET_NEXT_B]	D	Pulse to select the next preset. This command is only to be used in combination with the predefined presets. This command will jump from preset 14 to preset 1.
[PRESET_PREV_B]	D	Pulse to select the previous preset. This command is only to be used in combination with the predefined presets. This command will jump from preset 1 to preset 14.
[FREQ_UP_B]	D	Pulse to raise the frequency or select the next channel.
[FREQ_DOWN_B]	D	Pulse to lower the frequency or select the previous channel.
[POLL_FM_INFO_B]	D	Pulse to poll for the program name and type.
[POLL_DAB_INFO_B]	D	Pulse to poll for the program name and type.
[POLL_AM_INFO_B]	D	Pulse to clear the [PROGRAM_TYPE\$] and [PROGRAM_NAME\$] signals.
[NAV_RIGHT_B]	D	Pulse to activate the Navigate Right command.
[NAV_LEFT_B]	D	Pulse to activate the Navigate Left command.
[NAV_UP_B]	D	Pulse to activate the Navigate Up command.
[NAV_DOWN_B]	D	Pulse to activate the Navigate Down command.
[P/TUNE_B]	D	Pulse to enter/exit preset recall mode.
[STORE_B]	D	Pulse to enter/exit preset store mode.
[POWER_STATUS_REQUEST_B]	D	Pulse to poll for power information.
[FM_RDS_ENABLE]	D	Pulse to enable RDS mode.
[FM_RDS_DISABLE]	D	Pulse to disable RDS mode.
[FM_RDS_STATUS_REQUEST_B]	D	Pulse to poll for the RDS status information.



[PRESET_NUMBER_REQUEST_B]	D	Pulse to poll for the selected preset number.
[PRESET_DOWN_B]	D	Pulse to select the previous preset (preset1-100).
[PRESET_UP_B]	D	Pulse to select the next preset(preset1-100).
[NUMERIC_ENTRY_x_B]	D	Pulse to select numeric entry x.
RX\$	S	Is to be connected with the Rx signal of the serial port.
FEEDBACK:		
[POWER_ON_FB]	D	Goes high when the device is powered on.
[POWER_OFF_FB]	D	Goes high when the device is powered off.
[SOURCE_FM_FB]	D	Goes high when the FM source is selected.
[SOURCE_DAB_FB]	D	Goes high when the DAB source is selected.
[SOURCE_SIRIUS_FB]	D	Goes high when the SIRIUS source is selected.
[SOURCE_AM_FB]	D	Goes high when the AM source is selected.
[SOURCE_AUX_FB]	D	Goes high when the AUX source is selected.
[PRESET_x_FB]	D	Goes high when preset x is selected.
[PRESET_NONE_FB]	D	Goes high when no preset is selected.
[PRESET_NUM]	A	Outputs the number of the selected output(1 to 14) and 0 otherwise.
[STATION_NAME\$]	S	Outputs the name of the station.
[FREQUENCY\$]	S	Outputs the frequency.
[DLS/PDT\$]	S	Outputs the DLS/PDT information.
[PROGRAM_TYPE\$]	S	Outputs the program type.(genre)
TX\$	S	Is to be connected with the Tx signal of the serial port.



TESTING:	
OPS USED FOR TESTING:	PRO2 4.001.0777 (Aug 08 2008)
COMPILER USED FOR TESTING:	2.00.34
SAMPLE PROGRAM:	"Arcam T32 Demo Program.smw"
REVISION HISTORY:	V. 1.0