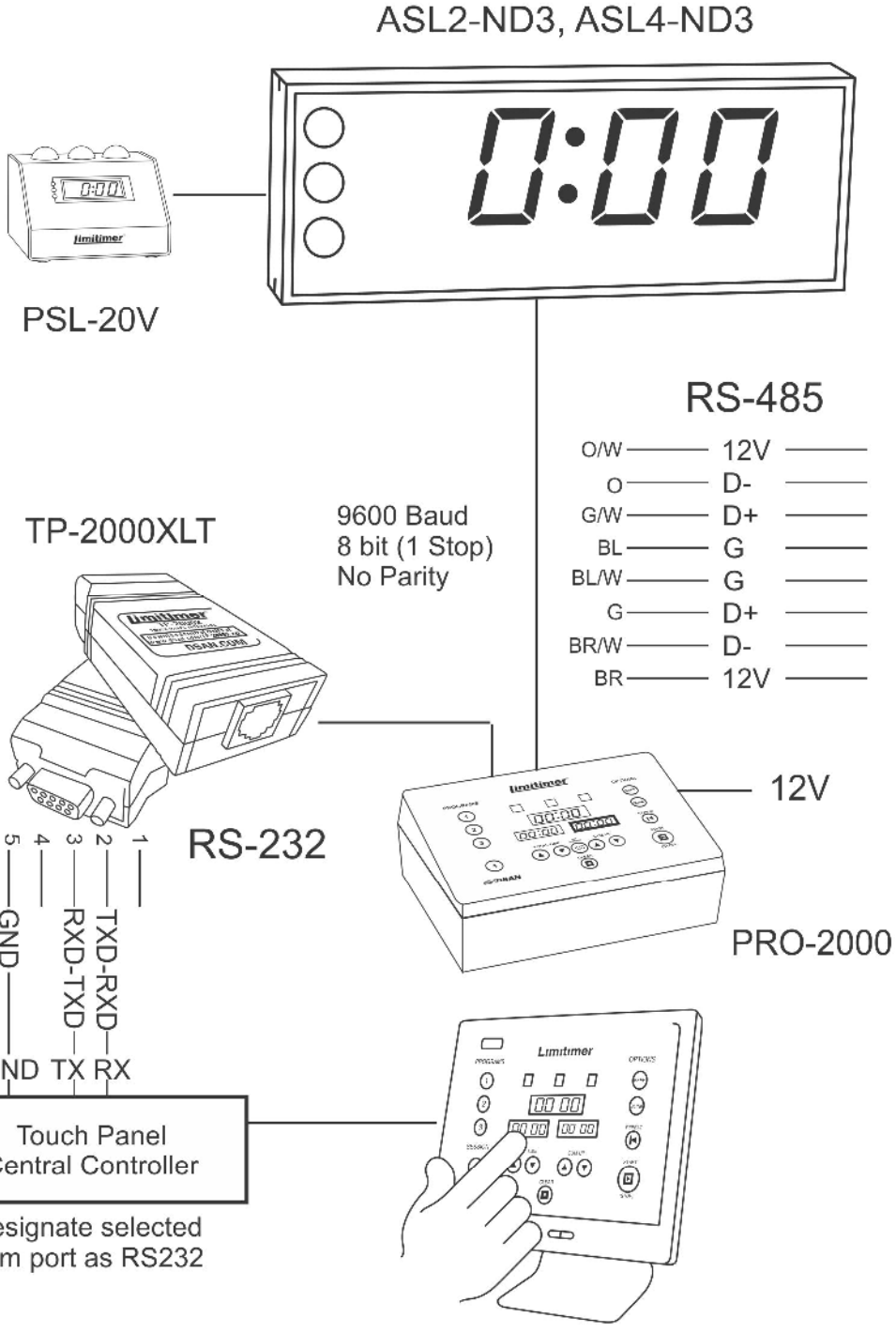
Limitimer®

Connections for Touch Panel Controllers
TP-2000XLT



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Speaker Timer Serial Control Protocol
Limitimer ASCII API

These messages are formatted as follows:

>	Command String	Space	Checksum High	Checksum Low	<CR>

Checksum

Checksum
Add all bytes of Command String and Space; Use lower 2 digits

Example:
"PRG1" 0x50+0x52+0x47+0x31+0x20 = 0x13A
Checksum High = 3 Checksum Low = A
Full Message >PRG1<SP>3A<CR>*

Don't forget to include the ">" – start of message.

*When sending commands to Limitimer, use carriage return delimiter "/x0D" (Forward slash). Return delimiter is "\x0D"

Baud Rate	9600
Data:	8-bit
Parity:	None
Stop Bit:	1

Buttons: (to Limitimer)

Command String	Description	Full Message
PRG1	Program 1 button	>PRG1 3A<CR>
PRG2	Program 2 button	>PRG2 3B<CR>
PRG3	Program 3 button	>PRG3 3C<CR>
SESS	Program 4 (Session) button	>SESS 5E<CR>
TTUP	Total Time Up button	>TTUP 6D<CR>
TTDN	Total Time Down button	>TTDN 5A<CR>
STUP	Sum-Up Time Up button	>STUP 6C<CR>
STDN	Sum-Up Time Down button	>STDN 59<CR>
SSEC	Set Seconds button	>SSEC 4E<CR>
CLR	Clear button	>CLR 01<CR>
BEEP	Beep button	>BEEP 3C<CR>
BLNK	Blink button	>BLNK 47<CR>
REPT	Repeat button	>REPT 5B<CR>
STOP	Start/Stop button	>STOP 66<CR>
ENTIME	Enable Timer Display on Large Signal Light*	>ENTIME E2<CR>
DISTIME	Disable Timer Display on Large Signal Light*	>DISTIME 2F<CR>
~~INCMIN~~	~~Increment Large Signal Light Minutes~~	~~>INCMIN DE<CR>~~
~~INCHOUR~~	~~Increment Large Signal Light Hours~~	~~>INCHOUR 38<CR>~~

*If disabled, large clock will either display time-of-day or blank depedning on its DIP switch #9

LED Indicators: (from Limitimer)

P1LEDON	Program 1 LED ON	>P1LEDON 13
P1LEDDM	Program 1 LED Dim	>P1LEDDM 07
P1LEDOF	Program 1 LED OFF	>P1LEDOF 0B
P2LEDON	Program 2 LED ON	>P2LEDON 14
P2LEDDM	Program 2 LED Dim	>P2LEDDM 08
P2LEDOF	Program 2 LED OFF	>P2LEDOF 0C
P3LEDON	Program 3 LED ON	>P3LEDON 15
P3LEDDM	Program 3 LED Dim	>P3LEDDM 09
P3LEDOF	Program 3 LED OFF	>P3LEDOF 0D
SESLEDON	Session LED ON	>SESLEDON 7D
SESLEDDM	Session LED Dim	>SESLEDDM 71
SESLEDOF	Session LED OFF	>SESLEDOF 75
BPLEDON	Beep LED ON	>BPLEDON 24
BPLEDOF	Beep LED OFF	>BPLEDOF 1C
BKLEDON	Blink LED ON	>BKLEDON 1F
BKLEDOF	Blink LED OFF	>BKLEDOF 17
GRNLEDON	Green LED ON	>GRNLEDON 79
GRNLEDOF	Green LED OFF	>GRNLEDOF 71
YELLEDON	Yellow LED ON	>YELLEDON 7C
YELLEDOF	Yellow LED OFF	>YELLEDOF 74
REDLEDON	Red LED ON	>REDLEDON 6D
REDLEDOF	Red LED OFF	>REDLEDOF 65
SMON	Seconds Mode Indicator ON	>SMON 5D
SMOF	Seconds Mode Indicator OFF	>SMOF 55
BEEP	Beep	>BEEP 3C

Time Strings: (from Limitimer , approximately 4 Hz)

TTSTR=00:00	Total Time String	>TTSTR= 0:00 E8**
STSTR=00:00	Sum-Up Time String	>STSTR= 0:00 E7**
RTSTR=00:00	Remaining Time String	>RTSTR= 0:00 E6**
RTSTRSZ=00:00	Remaining Time String – Stop at 0:00***	>RTSTRSZ= 0:00 9

**Obviously, the check sum will change with each change of time time value.
***Use this variable if you want the clock to stop displaying time past 0:00. Note: The timer will continue to count past 0:00 until the STOP command is received.