

Serial Control Protocol

Deliberator Keypad ASCII API

3/5/2015

These messages are formatted as follows:

SOM	Address String	GS	Command String	GS	Cmd Str....	ETX	Checksum High	Checksum Low	EOM
			Checksum						

SOM = '>' (0x3e)
 GS = '^' (0x5e)
 ETX = '<' (0x3c)
 EOM = 'cr' (0x0d) (optional 'lf' (0x0a))

Address String:

KEYIDSTR=12 Address String (ascii digits)
 Address String ("ALL")

Command Strings:

General: (to Deliberator on connection)

KEYIDSTR=12 Address String (ascii digits)
 KEYIDSTR=ALL Address String ("ALL")

(this command tells the Deliberator whether a specific keypad or all of the keypads are communicating on this connection)

Baud Rate = 19200

Address and Command Strings are separated by GS

Checksum Calculation

Add all bytes from Address String to and including ETX
 Use lower 2 digits

Example:

"KEYIDSTR=12<"

0x4B+0x45+0x59+0x49+0x44+0x53+0x54+0x52+
 0x3D+0x31+0x32+0x3C = 0x34B

Checksum High = 4

Checksum Low = B

Full Message

[SOM]KEYIDSTR=12[ETX]4B[EOM]

Modes: (from Deliberator)

ANNOUNCEMODE	Announce Mode	
DISCUSSMODE	Discuss Mode	
DEBATEMODE	Debate Mode	
VOTEMODE	Vote Mode	
VOTEMODEVOTING	Vote Mode	???
VOTEMODEIN	Vote Mode	???
VOTEMODETALLY	Vote Mode	???

Announce Mode:

No interaction

Discuss Mode:

Buttons: (to Deliberator)

REQBUT Request button

LED Indicators: (from Deliberator, approximately 6 Hz)

REQLEDON	Request LED On
REQLEDOF	Request LED Off
REQLEDBL	Request LED BLINK
TALKLEDON	Talk LED On
TALKLEDOF	Talk LED Off
TALKLEDBL	Talk LED BLINK
STOPLEDON	Stop LED On
STOPLEDOF	Stop LED Off
STOPLEDBL	Stop LED BLINK

Strings: (from Deliberator, approximately 6 Hz)

MEMNAMESTR=name	Member Name String
MEMSPEAKNUMSTR=13	Member Speaker Number String (3 ascii digits, “---“ if not on list)
SPEAKSTRx=name	Speaker Name String x=1-20

Debate Mode:

Buttons: (to Deliberator)

REQBUT	Request button
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LED Indicators: (from Deliberator, approximately 6 Hz)

REQLEDON	Request LED On
REQLEDOF	Request LED Off
REQLEDBL	Request LED BLINK
TALKLEDON	Talk LED On
TALKLEDOF	Talk LED Off
TALKLEDBL	Talk LED BLINK
SUMLEDON	Sum Up LED On
SUMLEDOF	Sum Up LED Off
SUMLEDBL	Sum Up LED BLINK
STOPLEDON	Stop LED On
STOPLEDOF	Stop LED Off
STOPLEDBL	Stop LED BLINK

Strings: (from Deliberator, approximately 6 Hz)

MEMNAMESTR=name	Member Name String
MEMSPEAKNUMSTR=13	Member Speaker Number String
MEMTRSTR =00:00	Member Time Remaining String
SPEAKSTRx=name	Speaker Name String x=1-20

Vote Mode:

Buttons: (to Deliberator)

YESBUT	Yes button	
NOBUT	No button	
ABSBUT	Abstain button	
PRESBUT	Present button	(future enhancement)

LED Indicators: (from Deliberator, approximately 6 Hz)

YESLEDON	Yes LED ON	
YESLEDOF	Yes LED OFF	
YESLEDBL	Yes LED BLINK	
NOLEDON	No LED ON	
NOLEDOF	No LED OFF	
NOLEDBL	No LED BLINK	
ABSBUT	Abstain LED ON	
ABSBUT	Abstain LED OFF	
ABSBUT	Abstain LED BLINK	
PRESLEDON	Present LED ON	(future enhancement)
PRESLEDOF	Present LED OFF	(future enhancement)
PRESLEDBL	Present LED BLINK	(future enhancement)

Strings: (from Deliberator, approximately 6 Hz)

MEMNAMESTR=name	Member Name String
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Serial Control Protocol

Deliberator Slave ASCII API

3/5/2015

These messages are formatted as follows:

SOM	Address String	GS	Command String	GS	Cmd Str....	ETX	Checksum High	Checksum Low	EOM
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SOM = '>' (0x3e)
GS = '^' (0x5e)
ETX = '<' (0x3c)
EOM = 'cr' (0x0d) (optional 'lf' (0x0a))

Address String:

SLAVE Slave

Command Strings:

Modes: (to or from Deliberator)

ANNOUNCMODE	Announce Mode
DISCUSSMODE	Discuss Mode
DEBATEMODE	Debate Mode
VOTEMODE	Vote Mode

Announce Mode:

No interaction

Discuss Mode:

Buttons: (to Deliberator)

STARTBUT	Start Discussion
STOPBUT	Stop Discussion
NEXTBUT	Next Speaker

Indicators: (from Deliberator)

TALKLEDON	Talk LED On
TALKLEDOF	Talk LED Off
STOPLEDON	Stop LED On
STOPLEDOF	Stop LED Off

Debate Mode:

Buttons: (to Deliberator)

STARTBUT	Start Discussion
STOPBUT	Stop Discussion
NEXTBUT	Next Speaker

Indicators: (from Deliberator)

TALKLEDON	Talk LED On
TALKLEDOF	Talk LED Off
SUMLEDON	Sum Up LED On
SUMLEDOF	Sum Up LED ff

Baud Rate = 19200

Address and Command Strings are separated by GS

Checksum Calculation

Add all bytes from Address String to and including ETX
Use lower 2 digits

Example:

"SLAVE^ ANNOUNCMODE<"

0x53+0x4C+0x41+0x56+0x45+0x5E+

0x41+0x78+0x78+0x4f+0x55+0x4E+0x4D+0x4F+0x44+0x45+

0x3C = 0x55D

Checksum High = 5

Checksum Low = D

Full Message

[SOM]SLAVE[GS]ANNOUNCMODE[ETX]5D[EOM]

STOPLEDON	Stop LED On
STOPLEDOF	Stop LED Off
STOPLEDBL	Stop LED Blink

Strings: (from Deliberator)

TRSTR=00:00	Time Remaining String	(approximately 4 Hz)
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Vote Mode:

Buttons: (to Deliberator)

VOTEBUT	Start Vote
TALLYBUT	Stop Vote
CLEARBUT	Clear Vote

Indicators: (from Deliberator)

VOTELEDON	Voting LED ON
VOTELEDOF	Voting LED OFF
VOTELEDBL	Voting LED Blink
YESCOUNT=12	Yes Vote Count
NOCOUNT=12	No Vote Count
ABSCOUNT=12	Abstain Vote Count

YESLEDON	Yes LED ON
YESLEDOF	Yes LED OFF
YESLEDBL	Yes LED Blink
NOLEDON	No LED ON
NOLEDOF	No LED OFF
NOLEDBL	No LED Blink
ABSLEDON	Abstain LED ON
ABSLEDOF	Abstain LED OFF
ABSLEDBL	Abstain LED Blink