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Analyst488



Command Line Functions

- ABORT- ABORT
Send IFC (SC) or MTA (*SC-CA).
Stops bus activity.
- ADDRESS- ADDRESS[[?]]{addr}
Set the IEEE bus addr of the Analyzer488.
- CLEAR- CLEAR[addr]{addr...}
Issue Device Clear (DCL) or Selected Device Clear (SDC).
- ENTER- ENTER[addr]{count}{term}{EO}{count}; term;EO
Read data from the IEEE 488 bus.
- HELLO- HELLO
Read the Analyzer488 revision identification.
- LOCAL- LOCAL[addr]{addr...}
Unassert the Remote Enable (REN) line.
- LOCAL LOCKOUT- LOCAL LOCKOUT
Issue Local Lockout (LLO) command.
- OUTPUT- OUTPUT[addr]{addr...}{count} data
Send data to IEEE 488 bus device.
- PPOLL- PPOLL
Read the Parallel Poll response from all bus devices.
- PPOLL CONFIG- PPOLL CONFIG addr{response}
Set Parallel Poll response of a device.
- PPOLL DISABLE- PPOLL DISABLE addr{addr...}
Disable a bus device from responding to parallel polls.
- PPOLL UNCONFIG- PPOLL UNCONFIG
Prevent all bus devices from responding to a Parallel Poll.
- REMOTE- REMOTE[addr]{addr...}
Assert Remote Enable line or address devices to listen.
- RESUME- RESUME
Un-assert Attention (ATN) line.
- SEND- SEND[;]{sub-command}{sub-command...}
Send low level sequences in High Level Controller Mode.
- SPOLL- SPOLL[addr]{addr...}
Perform a Serial Poll.
- STATUS- STATUS[;]{0|1|2|3|4|5}
Return Analyzer488 operational status.
- TERM- TERM[;]{?}{term}{term}{EO}{EO}{NONE}
Set the output terminators for IEEE bus transfers.
- TIMEOUT- TIMEOUT[;]{n}
Set timeout from 1 to 65535 seconds.
- TRIGGER- TRIGGER[addr]{addr...}
Issue the bus Group Execute Trigger (GET) command.

Menus

- File (Alt F)
 - Open Analyzer (F2) Open an Analyzer488 window
 - open File (F3) Open a file window
 - Virtual Front Panel (F4) Open VFP window
 - coMmand Line Controller (F5) Open a CLC
 - Write Block... (^W) Write a block of data
 - Print Block... Opens a print menu
 - Printer (^P) Make data hardcopy
 - Disk (^D) Make file-print of data
 - Transfer Block Transfer data between windows
 - DOS Shell Temporarily exit to DOS
- Setup... Open a setup menu
 - Serial Port Serial port parameters
 - Program Options PC configuration
 - Restore Default Setup Resets serial port and program
- Quit (^Q) Quit and exit to DOS
- Display (Alt D)
 - Format... Open a format menu
 - Message Set format to one-line IEEE codes
 - Hexadecimal Data in hex format
 - miXed Data in composi format
 - hEx Mode Highlight... Highlight bus commands
- Absolute (^A) Display absolute addresses
- Relative (^R) Display relative addresses
- Set relative (F7) Mark cursor for relative addresses
- Horizontal (^H) Orient screens side-by-side
- Vertical (^V) Orient screens up and down
- Record (Alt R)
 - Record Enable (F8) Start/stop recording bus events
 - record Status... Get record statistics
 - Trigger setup... Configure triggering parameters
 - triGger enable Start or stop triggering
 - Erase (^E) Erase record memory
 - Zero (^Z) Reset record memory pointer
- Search (Alt S)
 - First Goto 1st bus event
 - Last Goto last bus event
 - Next Trigger Find next trig point

Previous Trigger

- mark/Unmark Block
- Mark all
- Block find...
- block find Next
- block Compare
- goto Address
- goto Offset
- goto Reference
- Handshake
- Listen
- Talk
- Fast
- Slow...
- steP
- None

Find prev trig point

- (F6) Mark block of data
- (^B) Mark all data
- Find data in block
- (F9) Find next in block
- Compare 2 blocks
- (^G) Goto absolute addr
- (^O) Goto relative addr
- Goto rel addr 0
- (Alt H)
- (^L) Enter listen state
- (^T) Enter talk state
- Hndshk at hi speed
- Hndshk at 1 to 10 bps
- (F10)Handshake once
- Disable handshake participation

Character Codes and IEEE Multiline Messages

100	0	10	14	18	22	26	30	34	38	42	46	50	54	58	62	66	70	74	78	82	86	90	94	98	102	106	110	114
NUL	DLE	SP	0	@	P																							
108	112	116	120	124	128	132	136	140	144	148	152	156	160	164	168	172	176	180	184	188	192	196	200	204	208	212	216	220
SOH	DC1	!	1	A	Q																							
108	112	116	120	124	128	132	136	140	144	148	152	156	160	164	168	172	176	180	184	188	192	196	200	204	208	212	216	220
STX	DC2	"	2	B	R																							
108	112	116	120	124	128	132	136	140	144	148	152	156	160	164	168	172	176	180	184	188	192	196	200	204	208	212	216	220
ETX	DC3	#	3	C	S																							
108	112	116	120	124	128	132	136	140	144	148	152	156	160	164	168	172	176	180	184	188	192	196	200	204	208	212	216	220
EOF	DC4	\$	4	D	T																							
108	112	116	120	124	128	132	136	140	144	148	152	156	160	164	168	172	176	180	184	188	192	196	200	204	208	212	216	220
ENQ	NAK	%	5	E	U																							
108	112	116	120	124	128	132	136	140	144	148	152	156	160	164	168	172	176	180	184	188	192	196	200	204	208	212	216	220
ACK	SYN	&	6	F	V																							
108	112	116	120	124	128	132	136	140	144	148	152	156	160	164	168	172	176	180	184	188	192	196	200	204	208	212	216	220
BEL	ETB	'	7	G	W																							
108	112	116	120	124	128	132	136	140	144	148	152	156	160	164	168	172	176	180	184	188	192	196	200	204	208	212	216	220
BS	CAN	(8	H	X																							
108	112	116	120	124	128	132	136	140	144	148	152	156	160	164	168	172	176	180	184	188	192	196	200	204	208	212	216	220
HT	EM)	9	I	Y																							
108	112	116	120	124	128	132	136	140	144	148	152	156	160	164	168	172	176	180	184	188	192	196	200	204	208	212	216	220
LF	SUB	:	10	J	Z																							
108	112	116	120	124	128	132	136	140	144	148	152	156	160	164	168	172	176	180	184	188	192	196	200	204	208	212	216	220
VT	ESC	=	11	K	[
108	112	116	120	124	128	132	136	140	144	148	152	156	160	164	168	172	176	180	184	188	192	196	200	204	208	212	216	220
FF	FS	-	12	L	\																							
108	112	116	120	124	128	132	136	140	144	148	152	156	160	164	168	172	176	180	184	188	192	196	200	204	208	212	216	220
CR	GS	_	13	M]																							
108	112	116	120	124	128	132	136	140	144	148	152	156	160	164	168	172	176	180	184	188	192	196	200	204	208	212	216	220
SO	RS	>	14	N	^																							
108	112	116	120	124	128	132	136	140	144	148	152	156	160	164	168	172	176	180	184	188	192	196	200	204	208	212	216	220
SI	US	/	15	O	~																							

ACC = Addressed Command Group TAG = Talk Address Group
 DCC = Universal Command Group SCC = Secondary Command Group
 LAG = Listen Address Group

Analyzer488



Front Panel Keys

- HANDSHAKE-**
- [FAST] Participate in handshake at speeds up to 1 Mbyte/sec.
- [SLOW] Participate in handshake at speeds from 1 to 10 bytes/sec.
- [STEP] Enable Step handshake and initiate (Talk state) or complete (Listen state) one handshake sequence.
- [RATE] Adjust Slow handshake speed from 1 to 10 bytes / sec.
- [NONE] Disable participation in handshake.
- SOURCE-**
- [LISTEN] Place Analyzer488 into the Listen state.
- [TALK] Place Analyzer488 into the TALK state.
- [PRINT] Print data contained in the record memory.
- CONTROL-**
- [EOI] Toggle the state of the End Or Identify (EOI) bus management line. The LED indicates the driven state of this line.
- [ATN] Toggle the state of the Attention (ATN) bus management line. The LED indicates the driven state of this line.
- [SRQ] Toggle the state of the Service Request (SRQ) management line. The LED indicates the driven state of this line.
- [REN] Toggle the state of the Remote Enable (REN) management line. The LED indicates the driven state of this line.
- [IFC] Pulse the Interface Clear (IFC) management line. The LED indicates the driven state of this line.
- MEMORY-**
- [VIEW] Toggle display between bus display mode and memory view mode.
- [ERASE] Erase record memory and reset location pointer to zero.
- [REC] Enable recording.
- [ZERO] Reset location pointer to zero.
- [REL] Toggle addressing mode between relative addressing and absolute addressing.
- [SET REL] Set the location pointer.

- SEARCH-**
- [FIRST] Display the first bus event recorded.
- [*TRIGGER] Search for the next trigger point.
- [LAST] Display the last bus event recorded.
- [-TRIGGER] Search for the previous trigger point.
- [NEXT] Find the next location that matches pattern defined with [FIND] key.
- [FIND] Find the first occurrence of a selected bus event.
- TRIGGER-**
- [STAT] Provide status information about the last triggered bus recording.
- [DISPLAY] Set the brightness of the front panel display.
- [SETUP] Set up parameters of the trigger command.
- [MEASURE] Display bus event performance data.
- [ARM] Enable triggering.
- [HEX/BIN] Toggle display format between hexadecimal and binary data.
- CURSOR-**
- [↑] Increment the displayed memory location or the data value placed on the bus.
- [↓] Decrement the displayed memory location or the data value placed on the bus.
- [→] Select parameter fields by moving the cursor to the right.
- [←] Select parameter fields by moving the cursor to the left. Also provides a backspace key for numeric entries.
- DATA ENTRY-**
- [0] - [F] Specify record memory locations, output data on the data lines, or play back a series of key presses saved with the [SAVE] key.
- [HELP] General key information or context sensitive help.
- [+/-] Change the polarity of a numeric entry, indicate a search direction, or set a "don't care" condition.
- [SAVE] Save or recall keypress macros.
- [ENTER] Enter selections, location addresses, or force a source (Talk state) or acceptor (Listen state) handshake.
- [EXIT] Leave a menu immediately and accept changes.
- [ESC] Escape a menu immediately without accepting changes.

Display Messages

- ACG Addressed Command Group
- ACK Acknowledge
- ATN Attention line
- BEL Bell
- BS Backspace
- CAN Cancel
- CR Carriage Return
- DC1 Device Control 1
- DC2 Device Control 2
- DC3 Device Control 3
- DC4 Device Control 4
- DCL Device Clear
- DLE Data Link Escape
- EM End of Medium
- ENQ Enquiry
- EOT End of Transmission
- ESC Escape
- ETB End Transmission Block
- ETX End of Text
- FF Form Feed
- FS File Separator
- GET Group Execute Trigger
- GS Group Separator
- GTL Go To Local
- HT Horizontal Tab
- LAG Listen Address Group
- LF Line Feed
- LLO Local Lock Out
- MLA My Listen Address
- MTA My Talk Address
- NAK Negative Acknowledge
- NUL Null
- PPC Parallel Poll Configure
- PPU Parallel Poll Unconfigure
- REN Remote Enable
- RS Record Separator
- SCG Secondary Command Group
- SDC Selected Device Clear
- SI Shift In
- SO Shift Out
- SOH Start Of Heading
- SPD Serial Poll Disable
- SPE Serial Poll Enable
- SRQ Service Request
- STX Start of Text
- SUB Substitute
- SYN Synchronous Idle
- TAD Talker Address
- TAG Talk Address Group
- TCT Take Control
- UCG Universal Command Group
- UNL Unlisten
- UNT Untalk
- US Unit Separator
- VT Vertical Tab



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