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The Nextion Instruction Set

These are the set of commands that Nextion can use.

They are categorized into only a few categories

- 1. General Rules and Practices ... <goto>
- 2. Assignment Statements ... <goto>
- 3. Operational Commands ... <goto>
- 4. GUI Designing Commands ... <goto>
- 5. Color Code Constants ... <goto>
- 6. System Variables ... <goto>
- 7. Format of Nextion Return Data ... <goto>

1 – General Rules and Practices

No. General Rule or Practice

- 1 All instructions over serial: are terminated with three bytes of 0xFF 0xFF 0xFF
 - ie: decimal: 255 or hex: 0xFF or ansichar: ÿ or binary: 11111111 ie byte ndt[3] = {255,255,255}; write(ndt,3); or print("\xFF\xFF\xFF"); or print("ÿÿÿ")
- 2 All instructions and parameters are in ASCII
- 3 All instructions are in lowercase letters
- 4 Blocks of code and enclosed within braces { } can not be sent over serial this means if, for, and while commands can not be used over serial
- 5 A space char 0x20 is used to separate command from parameters.
- 6 There are no spaces in parameters unless specifically stated

- 11 Character escaping is limited to 0x0D by using two text chars \r
- Holize Nextion does not support order of operations. sys@3+(8*4)risinivalid. Contact us
 - 13 16-bit 565 Colors are in decimal from 0 to 65535 (see 5.Note)
 - 14 Text values must be encapsulated with double quotes: ie "Hello"
- 15 Items within specific to Enhanced Models are noted with *K*
 - 16 Transparent Data Mode (used by addt and wept commands)
 - 1. MCU sending to Nextion
 - 1. MCU sends command. ie: wept 30,20ÿÿÿ or addt 1,0,320ÿÿÿ
 - 2. Nextion requires ~5ms to prepare for transparent mode data transfer
 - 3. Nextion sends "Ready" 0xFE 0xFF 0xFF 0xFF Return Data (see 7.30)
 - 4. MCU can now send specified quantity (20) of raw bytes to Nextion
 - 5. Nextion receives raw bytes from MCU until specified quantity (20) is received
 - 6. Nextion sends "Finished" 0xFD 0xFF 0xFF 0xFF Return Data (see 7.29)
 - 7. MCU and Nextion can proceed to next command

Note: Nextion will remain waiting at step 5 until every byte of specified quantity is received.

- During this time Nextion can not execute any other commands, and may indeed hang if the MCU fails to deliver the number of bytes as specified by the command parameter.
- data quantity limited by serial buffer (all commands+terminations + data < 1024)
- Only component attributes in green and non readonly system variables can be assigned new values at runtime. All others are readonly at runtime with the exception of .objname
- 18 Numeric values can now be entered with byte-aligned hex. ie: n0.val=0x01FF
- Advanced. Address mode is an advanced technique prepending the serial instruction with two bytes for the address. Two byte address is to be sent in little endian order, ie: 2556 is sent 0xFC 0x09. By default, the Nextion address is 0 and does not require two byte prefixing. When the two byte addressing is used, Nextion will only respond to the

Protocol Reparse mode, incoming serial data will not be processed natively by the

Nextion firmware but will wait in the serial buffer for processing. To exit active Protocol Reparse mode, recmod must be set back to passive (ie: in Nextion logic as recmod=0), which can not be achieved via serial. Send DRAKJHSUYDGBNCJHGJKSHBDNÿÿÿ via serial to exit active mode serially. Most HMI applications will not require Protocol Reparse mode and should be skipped if not fully understood.

21 Commenting user code inside Events uses the double-slash (two characters of forward slash /) technique. See 2.27 for proper usage.

2 – Assignment Statements

	3		
No.	Data Type	Operato	Description/Example (see 1.8 and 1.17)
1	Text	=	Assignment. Right side will be evaluated with result placed in left
			side. Component .txt-maxl needs to be large enough to hold result.
			t0.txt="Hello"
2	Text	+=	Text Addition. Will concatenate left side with right side with result
			placed left side. ie t0.txt+="Hello" is equivalent to
			t0.txt=t0.txt+"Hello".
			t0.txt="-"+t0.txt becomes t0.txt=t0.txt+"-".
			Use temp variable to prepend. va0.txt=t0.txt t0.txt="-"+va0.txt
			t0.txt+=" World" // append " World" to t0.txt
			//When contents of t0.txt is "Hello" becomes "Hello World"
3	Text	-=	Text Subtraction. Will remove right side (a specified numeric
			amount of characters to remove) from end of left side and result
			placed in left side.
			t0.txt-=4 or t0.txt=t0.txt-4 // remove last 4 chars from t0.txt
4	Text	\	Escape Character.
			Supported is \r hex 0x0D. (see 1.11)
			t0.txt="\r"
5	Text	==	Boolean Equality. Evaluate left side to right side.
			If both left and right sides are the same creates a true condition

7	Numeric	=	Assignment. Right side of equation will be evaluated and result
Home	Shop		Relaced in left side of more than one operator on right side fullus
			evaluation and assignment will occur at each operator.
			n0.val=bauds // places bauds value in n0.val component
Q 8	Numeric	+=	Numeric Addition. Adds value of left side and right side with result
			placed in left side. n0.val+=4 is equivalent to n0.val=n0.val+4
			n0.val+=va0.val
9	Numeric	-=	Numeric Subtraction. Subtracts right side from left side with result
			placed in left side. n0.val-=4 is equivalent to n0.val=n0.val-4
			n0.val-=60 // decreases value of n0.val by 60
10	Numeric	*=	Numeric Multiplication. Multiplies left side with right side with
			product result placed in left side. n0.val*=2 is equivalent of
			n0.val=n0.val*2
			n0.val*=2
11	Numeric	/=	Numeric Division. Equates division of numerator (left side) and
			divisor (right side) and places integer quotient in left side.
			60000/20001=2
			n0.val/=60
12	Numeric	%=	Numeric Modulo. Equates division of numerator (left side) and
			divisor (right side) and places integer remainder in left
			side. Divisor MUST be a constant. 60000/20001=19998
			n0.val%=60
13	Numeric	<<	Arithmetic Bit Shift Left. Moves all bits specified number to the left.
			Using the 16-bit example that follows, (32-bit uses similar rules)
			All bits shifted above 15 are lost and undefined bits become 0
			n0.val=n0.val<<4
			0 0 0 0.0 0 1 1.1 1 0 0.0 0 0 1
			0 0 1 1.1 1 0 0.0 0 0 1.
			0 0 1 1.1 1 0 0.0 0 0 1.0 0 0 0

Home	Shop	F	Signed bit. When signed bit is 1 (value is negative) then left filled is with 1's Resources Support Our Community Contact us When signed bit is 0 (value is positive) then left filled is with 0's
			no_al=n0.val>>4
Q			0 0 0 0.0 0 1 1.1 1 0 0.0 0 0 1
			0 0 0 0.0 0 1 1.1 1 0 0
			0 0 0 0.0 0 0 0.0 0 1 1.1 1 0 0
15	Numeric	&	Logical Bitwise AND. Compares all bits left side to all bits right side(mask)
			Using the 16-bit example that follows, (32-bit uses similar rules)
			Result is a bit of 1 where both left and right bits were 1
			n0.val=n0.val&35381
			0 1 0 1.1 0 1 1.0 0 1 0.0 1 0 1 no.val of 23333
			10 0 0.1 0 1 0.0 0 1 1.0 1 0 1 mask of 35381
			0000.1010.0010.0101 result is 2597
16	Numeric		Logical Bitwise OR. Compares all bits left side to all bits right side
			Using the 16-bit example that follows, (32-bit uses similar rules)
			Result is a bit of 1 where either left or right bits were 1
			n0.val=n0.val 35381
			0 1 0 1.1 0 1 1.0 0 1 0.0 1 0 1 n0.val of 65519
			1000.1010.0011.0101 constant 35381
			1101.1011.0011.0101 result is 56117
17	Numeric	==	Boolean Equality. Evaluate left side to right side.
			If both left and right sides are the same creates a true condition
			if(n0.val==va0.val)
18	Numeric	!=	Boolean Inequality. Evaluate left side to right side.
			If both left and right sides are different creates a true condition
			if(n0.val!=va0.val)
19	Numeric	<	Boolean Less than. Evaluate left side to right side.
			If left side is less than right side creates a true condition

			while(n0.val<=va0.val)
Home	Numeriep	>	R Boolean Greatersthan r Evaluate left side to right side. Contact us
			If left side is greater than right side creates a true condition
			white(n0.val>va0.val)
Q 22	Numeric	>=	Boolean Greater than or Equal. Evaluate left side to right side.
			If left side is greater than or equal to right side creates a true
			condition
			while(n0.val>=va0.val)
23	Code	{ }	Code Block begins with open brace { on line by itself
			Code Block ends with closing brace } beginning a new line
			see if (see 3.25) while (see 3.26) and for (see 3.27)
24	Code	()	Condition enclosure begins with open parenthesis (
			and ends with closing parenthesis) at end of line
			see if (see 3.25) while (see 3.26) and for (see 3.27)
25	Code		Period Separator. Separates Page, Component and Attributes
			Also used with page index and component array. (see 2.26)
			page1.va0.val or p0.pic
26	Code	[]	Array[index]. There are 3 arrays. Keyboard source showcases 2
			arrays.
			The b[.id] component array which takes component .id as index
			The p[index] page array which takes page index as index
			These (p[].b[]) need to be used with caution and mindful purpose.
			Reference to a component without specified Attribute can create
			for long and potentially frustrating debug sessions. The third array
			is the Serial Buffer Data u[index] array. This is valid when in active
			Protocol Reparse mode. Protocol Reparse is an advanced technique
			that should be skipped if not fully understood.
			p[pageindex].b[component.id].attribute // global scope
			b[component.id].attribute // local scope on current page

double-slash at the beginning of the line (no leading spaces), 2)

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immediately following code on a line without a space separating code and the double slash. Commenting of code blocks should ocor: 1) before the condition/iteration 2) inside the opening and closing braces 3) after the code block. Notes: It is important to note that comments can not interrupt code blocks without causing an "Error: Index was outside the bounds of the array". Comments are counted towards the overall "code + attributes" hard limit of 65534.

```
// these are valid comments
sys0=0// reset sys0 to zero
```

The following showcases valid/invalid use

```
//valid comment before condition/iteration
for(sys0=0;sys0<=sys1;sys0++)
// invalid comment between condition/iteration and block
  doevents//valid comment after code on same line
  // valid comment inside block
// valid comment outside block
```

3 - Operational Commands

No. Param Description and Usage/Parameters/Examples Count

1 Change page to page specified. Unloads old page to load specified page. page

Nextion loads page 0 by default on power on.

usage: page <pid>

<pid> is either the page index number, or pagename

page 0 // Change page to indexed page 0

page main // Change page to the page named main

- 2 Refresh component (auto-refresh when attribute changes since v0.38) ref
 - if component is obstructed (stacking), ref brings component to top.

			ref 3 // Refreshes the component with .id of 3
Hon		пор	ref 0 // Refreshes all components on the current page (same as ref 255)
3	click	2	Trigger the specified components Touch Press/Release Event
			As event ode is always local, object can not be page prefixed
Q			usage: click <cid>,<event></event></cid>
			<cid> is component's .id or .objname attribute of component to refresh</cid>
			<event> is 1 to trigger Press Event, 0 to trigger Release Events</event>
			click b0,1 // Trigger Touch Press Event of component with .objname b0
			click 4,0 // Trigger Touch Release Event of component with .id 4
4	ref_stop	0	Stops default waveform refreshing (will not refresh when data point added)
			– waveform refreshing will resume with ref_star (see 3.5)
			usage: ref_stop
			ref_stop // stop refreshing the waveform on each data point added
5	ref_star	0	Resume default waveform refreshing (refresh on data point add)
			used to resume waveform refreshing stopped by ref_stop (see 3.4)
			usage: ref_start
			ref_star // resume default refreshing, refresh on each data point added
6	get	1	Send attribute/constant over serial (0x70/0x71 Return Data)
			usage: get <attribute></attribute>
			<attribute> is either numeric value, .txt contents, or constant</attribute>
			get t0.txt // sends text contents of t0.txt in 0x70 Return Data format
			get "123" // sends text constant "123" in 0x70 Return Data format
			get n0.val // sends numeric value of n0.val in 0x71 Return Data format
			get 123 // sends numeric constant 123 in 0x71 Return Data format
7	sendme	0	Sends number of currently loaded page over serial (0x66 Return Data)
			– number of currently loaded page is stored in system variable dp
			– used in a page's initialize event will auto-send as page loads
			usage: sendme
			sendme // sends the value of dp in 0x66 Return Data Format

ie: src numeric value of 123 with length 4, result is dest text "0123"

Home Shop - dest txt maxl and length needs be large enough to accommodate conversion. ie: src numeric value of 123 with length 0, result is dest text "123"

- when vare is larger than length, .txt results in a truncation
- it is recommended to handle source length in user code before cov

Note: v0.53 changed behaviour from previous pre v0.53 behaviours. cov is deemed undefined if source is larger than length or the dest txt_maxl is smaller than the requested length. Some undefines are exploitable. usage: cov <src>,<dest>,<length>

<src> is text attribute (or numeric attribute when <dest> is text) <dest> is numeric attribute (or text attribute when <src> is numeric) <length> will determine if leading zeros added to conversion to text cov h0.val,t0.txt,0 // convert value of h0 into t0.txt without leading zeros cov t0.txt,h0.val,0 // convert integer into t0.txt from h0.val <length> ignored. cov h0.val,t0.txt,4 // convert value of h0 into t0.txt with exactly 4 digits Invalid: cov h0.val,va0.val,0 or cov t0.txt,va0.txt,0 // src & dest same type.

- Convert variable from numeric type to text, or text to numeric type 8a COVX
 - text must be text ASCII representation of an integer value.
 - source and destination types must not be of the same type
 - when source is numeric, hex format and length not 0 and <4. ie: (len 2) positive significant (byte 0 to 3), 123 = 0000007B = 007B ie: (len 2) negative significant (byte 3 to 0), -123 = FFFFFF85 = FF85
 - value is more than allowed space **results in a truncation**
 - it is recommended to ensure handling source length in user code before covx
 - in v0.53, covx is deemed undefined if source is larger than length or dest txt_maxl is smaller than requested length. (some of these undefines, can be exploited)

ie: src numeric value of 123 with length 0, result is dest text "123"

- when length is fixed and value is less, leading zeros will be added ie: src numeric value of 123 with length 4, result is dest text "0123"

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	<dest> is numeric attribute (or text attribute when <src> is numeric)</src></dest>
Home Shop	<length> will determine if leading zeros added to conversion to text Resources</length>
	<format> 0: integer, 1: Comma separated 1,000s, 2: Hex</format>
	covx h0.va.,t0.txt,0,0 // convert value of h0 into t0.txt without leading zeros
Q	covx t0.txt,h0.val,0,0 // convert t0.txt into integer in h0.val <length> ignored.</length>
	covx h0.val,t0.txt,4,0 // convert value of h0 into t0.txt with exactly 4 digits
	covx h0.val,t0.txt,4,1 // convert value of h0 into t0.txt with commas
	covx h0.val,t0.txt,4,2 // convert value of h0 into t0.txt in 2 bytes of hex digits
	Invalid: cov h0.val,va0.val,0 or cov t0.txt,va0.txt,0 // src & dest same type.
9 touch_j 0	Recalibrate the Nextion device's touch sensor
	– presents 4 points on screen for user to touch, saves, and then reboots.
	– typically not required as device is calibrated at factory
	– sensor can be effected by changes of conditions in environment
	usage: touch_j
	touch_j // trigger the recalibration of touch sensor
10 substr 4	Extract character or characters from contents of a Text attribute
	usage: substr <src>,<dest>,<start>,<count></count></start></dest></src>
	<pre><src> is text attribute where text will be extracted from</src></pre>
	<dest> is text attribute to where extracted text will be placed</dest>
	<start> is start position for extraction (0 is first char, 1 second)</start>
	<count> is the number of characters to extract</count>
	substr va0.txt,t0.txt,0,5 // extract first 5 chars from va0.txt, put into t0.txt
11 vis 2	Hide or Show component on current page
	– show will refresh component and bring it to the forefront layer
	– hide will remove component visually, touch events will be disabled
	– use layering with mindful purpose, can cause ripping and flickering.
	– use with caution and mindful purpose, may lead to difficult debug session
	usage: vis <comp><state></state></comp>
	<comp> is either .objname or .id of component on current page,</comp>
	– valid .id is 0 – page, 1 to 250 if component exists, and 255 for all

vis 1,1 // show component with .id 1, refresh on front layer vis 255,0 // hides all components on the current page Home Shop Contact us 12 Enable or disable touch events for component on current page tsw 2 - by defant, all components are enabled unless disabled by tsw - use with caution and mindful purpose, may lead to difficult debug session Q usage: tsw <comp><state> <comp> is either .objname or .id of component on current page, – valid .id is 0 – page, 1 to 250 if component exists, and 255 for all <state> is either 0 to disable, or 1 to enable. tsw b0,0 // disable Touch Press/Release events for component b0 tsw b0,1 // enable Touch Press/Release events for component b0 tsw 1,0 // disable Touch Press/Release events for component with id 1 tsw 1,1 // enable Touch Press/Release events for component with id 1 tsw 255,0 // disable all Touch Press/Release events on current page Stop execution of instructions received from Serial 13 com stop - Serial will continue to receive and store in buffer. execution of instructions from Serial will resume with com_star (see 3.14) using com_stop and com_star may cause a buffer overflow condition. - Refer to device datasheet for buffer size and command queue size usage: com_stop com_stop // stops execution of instructions from Serial Resume execution of instructions received from Serial 14 com star used to resume an execution stop caused by com_stop (see 3.13) - when com_star received, all instructions in buffer will be executed - using com_stop and com_star may cause a buffer overflow condition. - Refer to device datasheet for buffer size and command queue size usage: com_star com_star // resume execution of instruction from Serial Set the Random Generator Range for use with rand (see 6.14) 15 randset - range will persist until changed or Nextion rebooted

	<min> is value is -2147483648 to 2147483647</min>
	<max> is value greater than min and less than 2147483647</max>
Home Shop	randset 1,100 //set current random generator range from 1 to 100
	randset 0,5535 //set current random generator range from 0 to 65535
16 codo c 0	
₫6 code_c 0	Clear the commands/data queued in command buffer without execution
	usage: code_c
	code_c // Clears the command buffer without execution
17 print 1	Send raw formatted data over Serial to MCU
	– print/printh does not use Nextion Return Data, user must handle MCU side
	– qty of data may be limited by serial buffer (all data < 1024)
	– numeric value sent in 4 byte 32-bit little endian order
	value = byte1+byte2*256+byte3*65536+byte4*16777216
	– text content sent is sent 1 ASCII byte per character, without null byte.
	usage: print <attr></attr>
	<attr> is either component attribute, variable or Constant</attr>
	print t0.txt // return 1 byte per char of t0.txt without null byte ending.
	print j0.val // return 4 bytes for j0.val in little endian order
	print "123" // return 3 bytes for text "123" 0x31 0x32 0x33
	print 123 // return 4 bytes for value 123 0x7B 0x00 0x00 0x00
17a prints 2	Send raw formatted data over Serial to MCU
	– prints does not use Nextion Return Data, user must handle MCU side
	– qty of data may be limited by serial buffer (all data < 1024)
	– numeric value sent in 4 byte 32-bit little endian order
	value = byte1+byte2*256+byte3*65536+byte4*16777216
	– text content sent is sent 1 ASCII byte per character, without null byte.
	usage: prints <attr>,<length></length></attr>
	<attr> is either component attribute, variable or Constant</attr>
	<length> is either 0 (all) or number to limit the bytes to send.</length>
	prints t0.txt,0 // return 1 byte per char of t0.txt without null byte ending.
	prints t0.txt,4 // returns first 4 bytes, 1 byte per char of t0.txt without pull byte

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prints 123,2 // returns 2 bytes for value 123 UX/B UXUU

18 printh 1 to Send raw byte or multiple raw bytes over Serial to MCU

many – printh is one of the few commands that parameter uses space char 0x20

- when more than one byte is being sent a space separates each byte
- byte is represented by 2 of (ASCII char of hexadecimal value per nibble)
- qty may be limited by serial buffer (all data < 1024)
- print/printh does not use Nextion Return Data, user must handle MCU side usage: printh <hexhex>[<space><hexhex][...<space><hexhex]
 <hexhex> is hexadecimal value of each nibble. 0x34 as 34

printh 0d // send single byte: value 13 hex: 0x0d

<space> is a space char 0x20, used to separate each <hexhex> pair

printh 0d 0a // send two bytes: value 13,10 hex: 0x0d0x0a

- 19 add 3 Add single value to Waveform Channel
 - waveform channel data range is min 0, max 255
 - 1 pixel column is used per data value added
 - y placement is if value < s0.h then s0.y+s0.h-value, otherwise s0.y usage: add <waveform>,<channel>,<value>
 - <waveform> is the .id of the waveform component
 - <channel> is the channel the data will be added to
 - <value> is ASCII text of data value, or numeric value
 - valid: va0.val or sys0 or j0.val or 10

add 1,0,30 // add value 30 to Channel 0 of Waveform with .id 1 add 2,1,h0.val // add h0.val to Channel 1 of Waveform with .id 2

- 20 addt 3 Add specified number of bytes to Waveform Channel over Serial from MCU
 - waveform channel data range is min 0, max 255
 - 1 pixel column is used per data value added.
 - addt uses Transparent Data Mode (see 1.16)
 - waveform will not refresh until Transparent Data Mode completes.
 - qty limited by serial buffer (all commands+terminations + data < 1024)

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			<qty> is the number of byte values to add to <channel></channel></qty>
Hon	ne S	Shop	addt 2.0.20 // adds 20 bytes to Channel 0 Waveform with .id 2 from serial // byte of data is not ASCII text of byte value, but raw byte of data.
21	cle	3	Clear waveform channel data
Q			usage: cle <waveform>,<channel></channel></waveform>
			<waveform> is the .id of the waveform component</waveform>
			<channel> is the channel to clear</channel>
			<channel> must be a valid channel: < waveform.ch or 255</channel>
			0 if .ch 1, 1 if .ch 2, 2 if .ch 3, 3 if .ch=4 and 255 (all channels)
			cle 1,0 // clear channel 0 data from waveform with .id 1
			cle 2,255 // clear all channels from waveform with .id 2
22	rest	0	Resets the Nextion Device
			usage: rest
			rest // immediate reset of Nextion device – reboot.
23	doevents	0	Force immediate screen refresh and receive serial bytes to buffer
			– useful inside exclusive code block for visual refresh (see 3.26 and 3.27)
			usage: doevents
			doevents // allows refresh and serial to receive during code block
24	strlen	2	Computes the length of string in <txt> and puts value in <len></len></txt>
			usage: strlen <txt>,<len></len></txt>
			<txt> must be a string attribute ie: t0.txt, va0.txt</txt>
			<len> must be numeric ie: n0.val, sys0, va0.val</len>
			strlen t0.txt,n0.val // assigns n0.val with length of t0.txt content
24a	btlen	2	Computes number of bytes string in <txt> uses and puts value in <len></len></txt>
			usage: btlen <txt>,<len></len></txt>
			<txt> must be a string attribute ie: t0.txt, va0.txt</txt>
			<len> must be numeric ie: n0.val, sys0, va0.val</len>
			btlen t0.txt,n0.val // assigns n0.val with number of bytes t0.txt occupies
25	if	Block	Conditionally execute code block if boolean condition is met

- lext comparison supports ==, !=

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- Numerical comparison supports >, <, ==, !=, >=, <= Resources Support Our Community

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- nested "if" and "else if" supported.

usage: if __ndition block [else if condition block] [else block]

- (condition) is a simple non-complex boolean comparison evaluation valid: (j0.val>75) invalid: (j0.val<1>75) invalid: (j0.val<now.val+60)

```
if(t0.txt=="123456")
  page 1
if(n0.val == 123)
  b0.txt="stop"
}else
  b0.txt="start"
}
if(rtc==1)
  t0.txt="Jan"
}else if(rtc1==2)
  t0.txt="Feb"
}else if(rtc1==3)
  t0.txt="Mar"
}else
  t0.txt="etc"
}
```

- 26 while Block Continually executes code block until boolean condition is no longer met
 - tests boolean condition and execute commands within block { } if condition was met and continues to re-execute block until condition is not met.
 - nested conditions () is not allowed. invalid: ((h0.val+3)>0)
 - block opening brace { must be on line by itself
 - Text comparison supports ==, !=

^

valid: (j0.val>75) invalid: (j0.val+1>75)

- 27 for Block Iterate execution of code block as long as boolean condition is met
 - executes init_assignment, then tests boolean condition and executes commands within block { } if boolean condition is met, when iteration of block execution completes step_assignment is executed. Continues to iterate block and step_assignment until boolean condition is not met.
 - nested conditions () is not allowed. invalid: ((h0.val+3)>0)
 - block opening brace { must be on line by itself
 - Text comparison supports ==, !=
 - Numerical comparison supports >, <, ==, !=, >=, <=
 - block runs exclusively until completion unless doevents used (see 3.23)
 usage: for(init_assignment;condition;step_assignment) block
 - init_assignment and step_assignment are simple non-complex statement valid: n0.val=4, sys2++, n0.val=sys2*4+3 invalid: n0.val=3+(sys2*4)-1
 - (condition) is a simple non-complex boolean comparison evaluation valid: (j0.val>75) invalid: (j0.val+1>75)

```
// iterate n0.val by 1's as long as n0.val<100. result: n0.val=100
// will not visually see n0val increment until for-loop completes
for(n0.val=0;n0.val<100;n0.val++)
{
}</pre>
```

28 Store value/string to EEPROM wepo - EEPROM Valid address range is from 0 to 1023 (1K EEPROM) Contact us Shop **Home** - numeric value length: is 4 bytes, -2147483648 to 2147483647 - numeric data type signed long integer, stored in little endian order. Q val[addr+3]*16777216+val[addr+2]*65536+val[addr+1]*256+val[addr] - string content length: .txt content is .txt-maxl +1, or constant length +1 usage: wepo <attr>,<addr> <attr> is variable or constant <addr> is storage starting address in EEPROM wepo t0.txt,10 // writes t0.txt contents in addresses 10 to 10+t0.txt-maxl wepo "abcd",10 // write constant "abcd" in addresses 10 to 14 wepo 11,10 // write constant 11 in addresses 10 to 13 wepo n0.val,10 // write value n0.val in addresses 10 to 13 Read value from EEPROM 29 repo *K* - EEPROM valid address range is from 0 to 1023 (1K EEPROM) - numeric value length: is 4 bytes, -2147483648 to 2147483647 - numeric data type signed long integer, stored in little endian order. val[addr+3]*16777216+val[addr+2]*65536+val[addr+1]*256+val[addr] - string content length: .txt content is lesser of .txt-maxl or until null reached. usage: repo <attr>,<addr> <attr> is variable or constant <addr> is storage starting address in EEPROM repo t0.txt,10 // reads qty .txt-maxl chars (or until null) from 10 into t0.txt repo n0.val,10 // reads 4 bytes from address 10 to 13 into n0.val Store specified number of bytes to EEPROM over Serial from MCU 30 wept *K* - EEPROM valid address range is from 0 to 1023 (1K EEPROM) - wept uses Transparent Data Mode (see 1.16) - qty limited by serial buffer (all commands+terminations + data < 1024) usage: wept <addr>,<qty>

Read specified number of bytes from EEPROM over Serial to MCU 31 rept - EEPROM, valid address, range is from 0 to 1023 (1K EEPROM) Contact us *K* Shop usage: rept <addr>,<qty> <addr> is storage starting address in EEPROM <qty> is the number of bytes to read Q rept 30,20 // sends 20 bytes from EEPROM addresses 30 to 49 to serial // byte of data is not ASCII text of byte value, but raw byte of data. cfgpio **Configure Nextion GPIO** 32 3 *K* usage: cfgpio <io><mode><comp> <io> is the number of the extended I/O pin. - Valid values in PWM output mode: 4 to 7, all other modes 0 to 7. <mode> is the working mode of pin selected by <io>. - Valid values: 0-pull up input, 1-input binding, 2-push pull output, 3-PWM output, 4-open drain output. <comp> component .objname or .id when <mode> is 1 (otherwise use 0) - in binding mode, cfgpio needs to be declared after every refresh of page to reconnect to Touch event, best to put cfgpio in page pre-initialization event cfgpio 0,0,0 // configures io0 as a pull-up input. Read as n0.val=pio0. cfgpio 1,2,0 // configures io1 as a push-pull output, write as pio1=1 cfgpio 2,1, b0 // configures io2 as binding input with current page b0. // binding triggers b0 Press on falling edge and b0 Release on rising edge For PWM mode, set duty cycle before cfgpio: ie: pwm4=20 for 20% duty. cfgpio 4,3,0 // configures io 4 as PWM output. pwmf=933 to change Hz. // changing pwmf changes frequency of all configured PWM io4 to io7 **Advanced.** Read Only. Valid in active Protocol Reparse mode. 33 ucopy Copies data from the serial buffer. When Nextion is in active Protocol Reparse mode, ucopy copies data from the serial buffer. Most HMI applications will not require Protocol Reparse and should be skipped if not fully understood. usage: ucopy <attr>,<srcstart>,<len>,<deststart>

ucopy n0.val,0,2,0 // copy buffer bytes 0,1 to lower 2 bytes of n0.val

ucopy n0.val,0,2,2 // copy buffer bytes 0,1 to upper 2 bytes of n0.val
ucopy n0.val,0,4,0 // copy buffer bytes 0,1,2,4 to n0.val
ucopy t0.,7,0,10,0 // copy buffer bytes 0 to 9 into t0.txt

4 – GUI Designing Commands

No.	Name	Param	Description and Usage/Parameters/Examples
		Count	
1	cls	1	Clear the screen and fill the entire screen with specified color
			usage: cls <color></color>
			<color> is either decimal 565 Color Value or Color Constant</color>
			cls BLUE // Clear the screen and fill with color BLUE
			cls 1024 // Clear the screen and fill with color 1024
2	pic	3	Display a Resource Picture at specified coordinate
			usage: pic <x>,<y>,<picid></picid></y></x>
			<x> is the x coordinate of upper left corner where picture should be</x>
			drawn
			<y> is the y coordinate of upper left corner where picture should be</y>
			drawn
			<pre><picid> is the number of the Resource Picture in the HMI design</picid></pre>
			pic 10,20,0 // Display Resource Picture #0 with upper left corner at
			(10,20)
			pic 40,50,1 // Display Resource Picture #1 with upper left corner at
			(40,50)
3	picq	5	Crop Picture area from Resource Picture using defined area
			– replaces defined area with content from the same area of
			Resource Picture
			– Resource Picture should be full screen-size or area might be
			undefined
			usage: picq <x>,<y>,<w>,<h>,<picid></picid></h></w></y></x>

			<pre><picia> is the number of the kesource Picture in the HMI design</picia></pre>
Home	Shop		picq 20.50,30,20,0 Resources Support Our Community Contact us // crops area 30×20, from (20,50) to (49,69), from Resource Picture 0
4	хріс	7	Advanced Crop Picture
Q			crop area from source Resource Picture render at destination
			coordinate
			usage: xpic <destx>,<desty>,<w>,<h>,<srcx>,<srcy>,<picid></picid></srcy></srcx></h></w></desty></destx>
			<destx> is the x coordinate of destination upper left corner</destx>
			<desty> is the y coordinate of destination upper left corner</desty>
			<w> is the width of the defined crop area</w>
			<h> is the height of the defined crop area</h>
			<pre><srcx> is the x coordinate of upper left corner of defined crop area</srcx></pre>
			<srcy> is the y coordinate of upper left corner of defined crop area</srcy>
			<pre><picid> is the number of the Resource Picture in the HMI design</picid></pre>
			xpic 20,50,30,20,15,15,0 // crops area 30×20, from (15,15) to (44,34),
			// from Resource Picture 0 and renders it with upper left corner at
			(20,50)
5	xstr	11	Prints text on the Nextion device using defined area for text rendering
			usage: xstr <x>,<y>,<w>,<h>,,<pco>,<bco>,<xcen>,<ycen>,<sta>,</sta></ycen></xcen></bco></pco></h></w></y></x>
			<text></text>
			<x> is the x coordinate of upper left corner of defined text area</x>
			<y> is the y coordinate of upper left corner of defined text area</y>
			<w> is the width of the defined text area</w>
			<h> is the height of the defined text area</h>
			 is the number of the Resource Font
			<pc> is the foreground color of text (Color Constant or 565 color value)</pc>
			<pre><bco> is a) background color of text, or b) picid if <sta> is set to 0 or</sta></bco></pre>
			2
			^

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				nanal
Н	ome	Shop		- none) <text> is the string content (constant or .txt attribute), ie "China", or Resources Support Our Community Contact us va0.txt</text>
				xst.,70,10,100,30,1,WHITE,GREEN,1,1,1,va0.txt
Q				// use are 100×30 from (10,10) to (109,39) to print contents of va0.txt
- •				using
				// Font Resource 1 rendering Green letters on White background
				with both
				// horizontal and vertical centering and sta set as solid-color.
	6	fill	5	Fill a defined area with specified color
				usage: fill <x>,<y>,<w>,<h>,<color></color></h></w></y></x>
				<x> is the x coordinate of upper left corner of defined fill area</x>
				<y> is the y coordinate of upper left corner of defined fill area</y>
				<w> is the width of the defined fill area</w>
				<h> is the height of the defined fill area</h>
				<color> is fill color, either decimal 565 Color Value or Color Constant</color>
				fill 20,20,150,50,1024
				// fills area 150×50 from (20,20) to (169,69) with 565 Color 1024.
	7	line	5	Draw a line from point to point with specified color
				usage: line <x1>,<y1>,<x2>,<color></color></x2></y1></x1>
				<x1> is the x coordinate of the starting point of the line to be drawn</x1>
				<y1> is the y coordinate of the starting point of the line to be drawn</y1>
				<x2> is the x coordinate of the ending point of the line to be drawn</x2>
				<y2> is the y coordinate of the ending point of the line to be drawn</y2>
				<color> is line color, either decimal 565 Color Value or Color</color>
				Constant
				line 20,30,170,200,BLUE // draws line in BLUE from (20,30) to
				(170,200)
	8	draw	5	Draw a hollow rectangle around specified area with specified color
				usage: draw <x1>,<y1>,<x2>,<y2>,<color></color></y2></x2></y1></x1>

			<color> is line color, eitner decimal 565 Color value or Color</color>
Home	Shop		Constant Resources Support Our Community Contact us draw 10,10,70,70,GREEN // draw a Green rectangle around (10,10) to
			(79,)
0			// effectively four lines from (x1,y1) to (x2,y1) to (x2,y2) to (x1,y2) to
			(x1,y1)
9	cir	4	Draw a hollow circle with specified radius and specified color
			usage: cir <x>,<y>,<radius>,<color></color></radius></y></x>
			<x> is the x coordinate of the center point for the circle</x>
			<y> is the y coordinate of the center point for the circle</y>
			<radius> is the radius in pixels</radius>
			<color> is line color, either decimal 565 Color Value or Color</color>
			Constant
			cir 100,100,30,RED // renders a hollow Red circle with circle center
			at (100,100),
			// a 30 pixel radius, a 61 pixel diameter, within boundary (70,70) to
			(130,130).
10	cirs	4	Draw a filled circle with specified radius and specified color
			usage: cirs <x>,<y>,<radius>,<color></color></radius></y></x>
			<x> is the x coordinate of the center point for the circle</x>
			<y> is the y coordinate of the center point for the circle</y>
			<radius> is the radius in pixels</radius>
			<color> is fill color, either decimal 565 Color Value or Color Constant</color>
			cir 100,100,30,RED // renders a filled Red circle with center at
			(100,100),
			// a 30 pixel radius, a 61 pixel diameter, within boundary (70,70) to
			(130,130).

5 – Color Code Constants

No. Constant 565 Color Value Indicator Color

5	YELLOW		65504	Yellow	
Нобе	RED Shop	Resources	63488pport	Red Community	Contact us
7	GRAY		33840	Gray	
8	WHITE		65535	White	

Note: 16-bit 565 Colors are in decimal values from 0 to 65535

24-bit RGB **11011000 11011000 11011000**

16-bit 565 **11011 110110 11011**

6 – System Variables

1 dp Current dp=1, n0.val=dp Page ID read: Contains the current page displayed as per the HMI design write: change page to value specified (same effect as page	
3	
write: change page to value specified (same effect as page	
write, change page to value specified (same effect as page	
command)	•
min 0, max # of highest existing page in the user's HMI design.	
2 dim Nextion dim=32, dims=100	
dims Backlight Sets the backlight level in percent	
min 0, max 100, default 100 or user defined	
Note: dim=32 will set the current backlight level to 32%.	
using dims=32 will set the current backlight level to 32% and sa	save
this to be new power on default backlight level, persisting until	til
changed.	
3 baud Nextion baud=9600, bauds=9600	
bauds Baud Rate Sets the Nextion Baud rate in bits-per-second	
min 2400, max 115200, default 9600 or user defined	
Valid values are: 2400, 4800, 9600, 19200, 38400, 57600, and 1152	5200.
Note: baud=38400 will set the current baud rate to 38400	
using bauds=38400 will set the current baud rate to 38400 and	b
save this to be new power on default baud rate, persisting until	til
changed.	^

	spay	Spacing	Globally sets the default rendering space:
Home	Sh	iop Re	horizontally between font characters with spax additional pixels
			and
			vertically between rows (if multi-lined) with spay additional
Q			pixels.
			min 0, max 65535, default 0
			Note: Components now have their own individual .spax/.spay
			attributes that are now used to determine spacing for the
			individual component.
5	thc	Touch	thc=RED, thc=1024
		Draw Brush	Sets the Touch Drawing brush color
		Color	min 0, max 65535, default 0
			Valid choices are either color constants or the decimal 565 color
			value.
6	thdra	Touch	thdra=1 (on), thdra=0 (off)
		Drawing	Turns the internal drawing function on or off.
			min 0, max 1, default 0
			When the drawing function is on, Nextion will follow touch
			dragging with the current brush color (as determined by the thc
			variable).
7	ussp	Sleep on	ussp=30
		No Serial	Sets internal No-serial-then-sleep timer to specified value in
			seconds
			min 3, max 65535, default 0 (max: 18 hours 12 minutes 15 seconds)
			Nextion will auto-enter sleep mode if and when this timer expires.
			Note: ussp=0 is an invalid value, meaning once ussp is set, it will
			persist and can not be unset unless through reboot or reset.
8	thsp	Sleep on	thsp=30
	-	No Touch	Sets internal No-touch-then-sleep timer to specified value in
			seconds

9 thup Auto Wake thup=0 (do not wake), thup=1 (wake on touch)

Home Shop Touch Resources Nextion should auto-wake from sleep when touch press occurs.

max 1, default 0

When value is 1 and Nextion is in sleep mode, the first touch will

only trigger the auto wake mode and not trigger a Touch Event.

thup has no influence on sendxy, sendxy will operate

independently.

10 sendxy RealTime sendxy=1 (start sending) sendxy=0 (stop sending)

Touch Sets if Nextion should send 0x67 and 0x68 Return Data

Coordinates min 0, max 1, default 0

– Less accurate closer to edges, and more accurate closer to

center.

Note: expecting exact pixel (0,0) or (799,479) is simply not

achievable.

11 delay Delay delay=100

Creates a halt in Nextion code execution for specified time in ms

min 0, max 65535

As delay is interpreted, a total halt is avoided. Incoming serial

data is received and stored in buffer but not be processed until

delay ends. If delay of more than 65.535 seconds is required, use

of multiple delay statements required.

delay=-1 is max. 65.535 seconds.

12 sleep Sleep sleep=1 (Enter sleep mode) or sleep=0 (Exit sleep mode)

Sets Nextion mode between sleep and awake.

min 0, max 1, or default 0

When exiting sleep mode, the Nextion device will auto refresh the

page

(as determined by the value in the wup variable) and reset the

			min 0, max 3, default 2
Home	Shop		Resources 0 is Off no pass/fail will be returned Contact us
			– Level 1 is OnSuccess, only when last serial command successful.
			-vel 2 is OnFailure, only when last serial command failed
Q			– Level 3 is Always, returns 0x00 to 0x23 result of serial command.
			Result is only sent after serial command/task has been
			completed, as such this provides an invaluable status for
			debugging and branching. Table 2 of Section 7 Nextion Return
			Data is not subject to bkcmd
14	rand	Random	n0.val=rand
		Value	Readonly. Value returned by rand is random every time it is
			referred to.
			default range is 0 to 4294967295
			range of rand is user customizable using the randset command
			range as set with randset will persist until reboot or reset
15	sys0	Numeric	sys0=10 sys1=40 sys2=60 n0.val=sys2
	sys1	System	System Variables are global in nature with no need to define or
	sys2	Variables	create.
			They can be read or written from any page. 32-bit unsigned
			integers.
			min value of 0, max value of 4294967295
			Suggested uses of sys variables include
			– as temporary variables in complex calculations
			– as parameters to pass to click function or pass between pages.
16	wup	Wake Up	wup=2, n0.val=wup
		Page	Sets which page Nextion loads when exiting sleep mode
			min is 0, max is # of last page in HMI, or default 255
			When wup=255 (not set to any existing page)
			– Nextion wakes up to current page, refreshing components only
			wup can be set even when Nextion is in sleep mode

			When usup=1, any serial received wakes Nextion
Home *K*	rtc0 _S rtc1	RTC 10p	rtc0=2017, rtc1=8, rtc2=28, Our Community Contact us rtc3=16, rtc4=50, rtc5=36, n0.val=rtc6
	rtc2		Nextion RTC:
Q	rtc3		rtc0 is year 2000 to 2099, rtc1 is month 1 to 12, rtc2 is day 1 to 31,
	rtc4		rtc3 is hour 0 to 23, rtc4 is minute 0 to 59, rtc5 is second 0 to 59.
	rtc5		rtc6 is dayofweek 0 to 6 (Sunday=0, Saturday=6)
	rtc6		rtc6 is readonly and calculated by RTC when date is valid.
19	pio0	GPIO	pio3=1, pio3=0, n0.val=pio3
K	pio1 pio2 pio3 pio4 pio5 pio6 pio7		Default mode when power on: pull up input mode Internal pull up resistor: 50K GPIO is digital. Value of 0 or 1 only. – refer to cfgpio command for setting GPIO mode read if in input mode, write if in output mode
19	pwm4	PWM Duty	pwm4=25
K	pwm5 pwm6 pwm7	Cycle	Value in percentage. min 0, max 100, default 50. – refer to cfgpio command for setting GPIO mode
21	pwmf	PWM	pwmf=933
K		Frequency	Value is in Hz. min value 1 Hz, max value 65535 Hz. default 1000 Hz All PWM output is unified to only one Frequency, no independent individual settings are allowed. – refer to cfgpio command for setting GPIO mode
22	addr	Address	addr=257 Advanced. Enables/disables Nextion's two byte Address Mode 0, or min value 256, max value 2815. default 0 Setting addr will persist to be the new power-on default. – refer to section 1.19
			A section in

24	recmod Protocol	recmod=0, recmod=1
Home	_{Sh} Reparse	Readvanced. Set passive tor active Protocol Reparse mode ntact us
		min is 0, max is 1, default 0
		Wwen recmod=0, Nextion is in passive mode and processes serial
Q		data according to the Nextion Instruction Set, this is the default
		power on processing. When recmod=1, Nextion enters into active
		mode where the serial data waits to be processed by event code.
		Most HMI applications will not require Protocol Reparse and
		should be skipped if not fully understood.
25	usize Bytes in	n0.val=usize
	Serial	Advanced. Read Only. Valid in active Protocol Reparse mode.
	Buffer	min is 0, max is 1024
		When Nextion is in active Protocol Reparse mode, usize reports
		the number of available bytes in the serial buffer. Most HMI
		applications will not require Protocol Reparse and should be
		skipped if not fully understood.
26	u[index]Serial	n0.val=u[0]
	Buffer Da	ta Advanced . Read Only. Valid in active Protocol Reparse mode.
		min is 0, max is 255
		When Nextion is in active Protocol Reparse mode, the u[index]
		array returns the byte at position index from the serial buffer.
		Most HMI applications will not require Protocol Reparse and
		should be skipped if not fully understood.

7 – Format of Nextion Return Data

Return Codes dependent on bkcmd value being greater than 0

No.	Byte b	kcmd	len	Meaning	Format/Description
1	0x00	2,3	4	Invalid	0x00 0xFF 0xFF 0xFF
				Instruction	Returned when instruction sent by user has failed
2	0x01	1,3	4	Instruction	0x01 0xFF 0xFF 0xFF

4	0x03	2,3	4	Invalid	0x03 0xFF 0xFF 0xFF
Home		Shop		Resources	Returned when invalid Page ID or name was used act us
5	0x04	2,3	4	Invalid	0x04 0xFF 0xFF 0xFF
				Picture ID	Returned when invalid Picture ID was used
Q 6	0x05	2,3	4	Invalid	0x05 0xFF 0xFF 0xFF
				Font ID	Returned when invalid Font ID was used
7	0x11	2,3	4	Invalid	0x11 0xFF 0xFF 0xFF
				Baud rate Setting	Returned when invalid Baud rate was used
8	0x12	2,3	4	Invalid	0x12 0xFF 0xFF 0xFF
				Waveform ID or Channel #	Returned when invalid Waveform ID or Channel # was used
9	0x1A	2,3	4	Invalid	0x1A 0xFF 0xFF 0xFF
				Variable name or attribute	Returned when invalid Variable name or invalid attribute was used
10	0x1B	2,3	4	Invalid	0x1B 0xFF 0xFF 0xFF
				Variable	Returned when Operation of Variable is invalid. ie: Text
				Operation	assignment t0.txt=abc or t0.txt=23, Numeric assignment
					j0.val="50" or j0.val=abc
11	0x1C	2,3	4	Assignment	t 0x1C 0xFF 0xFF 0xFF
				failed to assign	Returned when attribute assignment failed to assign
12	0x1D	2,3	4	EEPROM	0x1D 0xFF 0xFF 0xFF
K				Operation failed	Returned when an EEPROM Operation has failed
13	0x1E	2,3	4	Invalid	0x1E 0xFF 0xFF 0xFF
				Quantity of	Returned when the number of instruction parameters is

15	0x20	2,3	4	Escape	0x20 0xFF 0xFF 0xFF
Home		Shop		Character Resources Invalid	Returned when an unsupported escape character is used
16	0x23	2,3	4	Variable	0x23 0xFF 0xFF 0xFF
Q				name too	Returned when variable name is too long. Max length is
				long	29 characters: 14 for page + "." + 14 for component.

Return Codes not affected by bkcmd value, valid in all cases

			Ketuii	i codes not a	arrected by bremu value, valid in all cases
I	Vo.	Byte	length	Meaning	Format/Description
	17	0x00	6	Nextion	0x00 0x00 0x00 0xFF 0xFF 0xFF
				Startup	Returned when Nextion has started or reset
	18	0x24	4	Serial	0x24 0xFF 0xFF 0xFF
				Buffer	Returned when a Serial Buffer overflow occurs
				Overflow	Returned when a Serial Burier overflow occurs
	19	0x65	7	Touch Event	0x65 0x00 0x01 <mark>0x01</mark> 0xFF 0xFF 0xFF
					Returned when Touch occurs and component's
					corresponding Send Component ID is checked
					in the users HMI design.
					0x00 is page number, 0x01 is component ID,
					0x01 is event (0x01 Press and 0x00 Release)
					data: Page 0, Component 1, Pressed
	20	0x66	5	Current	0x66 0x01 0xFF 0xFF 0xFF
				Page	Returned when the sendme command is used.
				Number	0x01 is current page number
					data: page 1
	21	0x67	9	Touch	0x67 0x00 0x7A 0x00 0x1E 0x01 0xFF 0xFF 0xFF
				Coordinate	Returned when sendxy=1 and not in sleep mode
				(awake)	0x00 0x7A is x coordinate in big endian order,
					0x00 0x1E is y coordinate in big endian order,
					0x01 is event (0x01 Press and 0x00 Release)

			(sleep)	0x00 0x7A is x coordinate in big endian order,
Home	Sho	р	Resources	0x00 0 <u>ម្ភា</u> រ ទ្រប្ coordinate in big endian order. Contact us
				0x01 is event (0x01 Press and 0x00 Release)
				(0x00*256+0x71,0x00*256+0x1E)
Q				data : (122,30) Pressed
23	0x70	Varied	String Data	0x70 0x61 0x62 0x31 0x32 0x33 0xFF 0xFF 0xFF
			Enclosed	Returned when using get command for a string.
				Each byte is converted to char.
				data: ab123
24	0x71	8	Numeric	0x71 0x01 0x02 0x03 0x04 0xFF 0xFF 0xFF
			Data	Returned when get command to return a number
			Enclosed	4 byte 32-bit value in little endian order.
				(0x01+0x02*256+0x03*65536+0x04*16777216)
				data: 67305985
25	0x86	4	Auto	0x86 0xFF 0xFF 0xFF
			Entered	Returned when Nextion enters sleep automatically
			Sleep Mode	Using sleep=1 will not return an 0x86
26	0x87	4	Auto Wake	0x87 0xFF 0xFF 0xFF
			from Sleep	Returned when Nextion leaves sleep automatically
				Using sleep=0 will not return an 0x87
27	0x88	4	Nextion	0x88 0xFF 0xFF 0xFF
			Ready	Returned when Nextion has powered up
				and is now initialized successfully
28	0x89	4	Start	0x89 0xFF 0xFF 0xFF
			microSD	Returned when power on detects inserted microSD
			Upgrade	and begins Upgrade by microSD process
29	0xFD	4	Transparent	0xFD 0xFF 0xFF 0xFF
			Data	Returned when all requested bytes of Transparent
			Finished	Data mode have been received, and is now leaving

the specified quantity of data (see 1.16)

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CONTACT INFO

Address: 8F, Building No.9, Banri wowi, Tongsha Road No.32, Nanshan Dist., Shenzhen, GD, China

Postal Code: 518000 China

Telephone: +86-755-27955416

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