

**SUPPORTED
AT COMMANDS
for the Nokia 810 vs. Nokia 6090**



Supported AT Commands

This table lists the AT commands as supported by the Nokia 810 and Nokia 6090 car phones.

Category	AT Command	6090	810	Description
V.25ter				
	S3	x	x	Command line termination character
	S4	x	x	Response formatting character
	S5	x	x	Command line editing character
	E	x	x	Command echo
	Q	x	x	Result code suppression
	V	x	x	DCE response format
	X	x	x	Result code selection and call progress monitoring control
	&C	x	x	Circuit 109 (received line signal detector) behaviour
	&D	x	x	Circuit 108 (data terminal ready) behaviour
	+IPR	x	x	Fixed DTE rate
	+ICF	x	x	Character framing
	+IFC	x	x	DTE-DCE local flow control
	+ILRR	x	x	DTE-DCE local rate reporting
De facto				
	S25	x	x	Detect DTR change time
	&S	x	x	DSR signal behaviour
	&K	x	x	Select flow control

Category	AT Command	6090	810	Description
<u>Generic commands</u>				
V.25ter				
	Z	x	x	Reset to default configuration
	&F	x	x	Set to factory-defined configuration
	I	x	x	Request identification information
	+GMI	x	x	Request TA manufacturer identification
	+GMM	x	x	Request TA model identification
	+GMR	x	x	Request TA revision identification
	+GSN	x	x	Request TA serial number identification
	+GCAP	x	x	Request complete capabilities list
De facto				
	&V	x	x	View configuration
	&W	x	x	Store configuration
	&Y	x	x	Select power-up configuration
GSM 07.07				
	+CGMI	x	x	Request ME manufacturer identification
	+CGMM	x	x	Request ME model identification
	+CGMR	x	x	Request ME revision identification
	+CGSN	x	x	Request ME serial number identification
	+CSCS	x	x	Select TE character set
	+WS46	x	x	Select wireless network

Category	AT Command	6090	810	Description
<u>Call control commands</u>				
V.25ter				
	D	x	x	Dial
	T	x	x	Select tone dialling
	P	x	x	Select pulse dialling
	A	x	x	Answer
	H	x	x	Hook control
	O	x	x	Return to online data state
	S0	x	x	Automatic answer
	S6	x	x	Pause before blind dialling
	S7	x	x	Connection completion timeout
	S8	x	x	Comma dial modifier time
	S10	x	x	Automatic disconnect delay
	L	x	x	Monitor speaker loudness
	M	x	x	Monitor speaker mode
	+DS	x	x	Data compression
	+DR	x	x	Data compression reporting
	+ES	x	x	Error control selection
	+ER	x	x	Error control reporting
De facto				
	B	x	x	CCITT/Bell mode
	S1	x	x	Ring count
	S2	x	x	Escape code character
	S12	x	x	Escape guard time
	+++	x	x	Escape sequence

Category	AT Command	6090	810	Description
GSM 07.07				
	+CSTA	x	x	Select type of address
	+CMOD	x	x	Call mode
	+CHUP	x	x	Hangup call
	+CBST	x	x	Select bearer service type
	+CRLP	x	x	Radio link protocol
	+CR	x	x	Service reporting control
	+CEER	x	x	Extended error report
	+CRC	x	x	Cellular result codes
	+CSNS	x	x	Single numbering scheme
	+CHSR		x	HSCSD parameters report
	+CHSD		x	HSCSD device parameters
	+CHST			HSCSD transparent call configuration
	+CHSN		x	HSCSD non-transparent call configuration
	+CHSC		x	HSCSD current call parameters
	+CV120		x	V.120 rate adaption protocol
	+CVHU		x	Voice hangup control
	+CNUM		x	Subscriber number
	+CREG		x	Network registration
	+COPS	x	x	Operator selection
	+CLCK	x	x	Facility lock
	+CPWD	x	x	Change password
	+CLIP	x	x	Calling line identification presentation
	+CLIR	x	x	Calling line identification restriction
	+COLP	x	x	Connected line identification presentation
	+CCFC		x	Call forwarding number and conditions
	+CCWA	x	x	Call waiting
	+CHLD	x	x	Call related supplementary services
	+CUSD	x	x	Unstructured supplementary service data

Category	AT Command	6090	810	Description
	+CAOC	x	x	Advice of charge
	+CSSN	x	x	Supplementary service notifications
	+CPIN	x	x	Enter PIN
	+CBC		x	Battery charge
	+CSQ	x	x	Signal quality
	+CPBS	x	x	Select phonebook memory storage
	+CPBR	x	x	Read phonebook entries
	+CPBF	x	x	Find phonebook entries
	+CPBW	x	x	Write phonebook entry
	+CPROT		x	Enter protocol mode
	+CMEE	x	x	Report mobile equipment error
	+CSMS	x	x	Select message service
	+CPMS	x	x	Preferred message storage
	+CMGF	x	x	Message format
	+CSCA	x	x	Service centre address
	+CSMP	x	x	Set text mode parameters
	+CSDH	x	x	Show text mode parameters
	+CSCB	x	x	Select cell broadcast message types
	+CSAS	x	x	Save settings
	+CRES	x	x	Restore settings
	+CNMI	x	x	New message indications to TE
	+CMGL	x	x	List messages
	+CMGR	x	x	Read message
	+CNMA	x	x	New message acknowledgement to ME/TA
	+CMGS	x	x	Send message
	+CMSS	x	x	Send message from storage
	+CMGW	x	x	Write message to memory
	+CMGD	x	x	Delete message
	+CMGC	x	x	Send command
	+CMMS		x	More messages to send

Category	AT Command	6090	810	Description
<u>Fax commands</u>				
All Classes				
	+FCLASS		x	DCE mode select
	+FLO		x	Select flow control
	+FPR		x	Serial port rate control
Class 1				
	+FDD		x	Double escape character replacement
	+FMI		x	Request manufacturer ID
	+FMM		x	Request model ID
	+FMR		x	Request revision ID
	+FRH		x	Receive HDLC data with a supported carrier
	+FRM		x	Receive data with a supported carrier
	+FRS		x	Receive silence
	+FTH		x	Transmit HDLC data with a supported carrier
	+FTM		x	Transmit data with a supported carrier
	+FTS		x	Transmit silence
Class 2				
	+FAA		x	Adaptive answer
	+FAXERR		x	Fax error value parameter
	+FBADLIN		x	RTN threshold number of consecutive bad lines for FCQ
	+FBADMUL		x	RTN threshold error rate multiplier for FCQ
	+FBOR		x	Data bit order
	+FBUF		x	DCE's data buffer characteristics
	+FBUG		x	Session message reporting
	+FCIG		x	Local polling ID string
	+FCQ		x	Quality checking
	+FCR		x	Capability to receive
	+FCTCRTY		x	ECM retry count

Category	AT Command	6090	810	Description
	+FDCC		x	Capabilities parameters
	+FDCS		x	Negotiated current session parameters
	+FDFFC		x	Data encoding format conversion parameter
	+FDIS		x	Current session parameters
	+FDR		x	Receive phase C data
	+FDT		x	Transmit phase C data
	+FECM		x	ECM control parameter
	+FET		x	Transmit page punctuation
	+FK		x	Terminate session
	+FLID		x	Local ID string
	+FLNFC		x	Page length format conversion parameter
	+FLPL		x	Indicate a document to poll
	+FMDL		x	Request model ID
	+FMFR		x	Request manufacturer ID
	+FMINSP		x	Minimum acceptable Phase C speed
	+FPHCTO		x	Phase C response timeout
	+FPTS		x	Page transmission status parameter
	+FRBC		x	Phase C receive data block size
	+FREL		x	Phase C received EOL alignment control parameter
	+FREV		x	Request revision ID
	+FSPL		x	Request to poll
	+FTBC		x	Phase C transmit data block size
	+FVRFC		x	Vertical resolution format conversion
	+FWDFC		x	Page width format conversion

Category	AT Command	6090	810	Description
Class 2.0				
	+FAA		x	Adaptive answer
	+FBO		x	Data bit order
	+FBS		x	Buffer size
	+FBU		x	HDLC frame reporting
	+FCC		x	Capabilities parameters
	+FCQ		x	Copy quality checking
	+FCR		x	Capability to receive
	+FCS		x	Current session results
	+FCT		x	Phase C response timeout
	+FDR		x	Receive phase C data
	+FDT		x	Transmit phase C data
	+FEA		x	Phase C receive EOL alignment
	+FFC		x	Data encoding format conversion
	+FHS		x	Call termination status
	+FIE		x	Procedure interrupt enable
	+FIP		x	Initialize facsimile parameters
	+FIS		x	Current session parameters
	+FKS		x	Terminate session
	+FLI		x	Local ID string
	+FLP		x	Indicate a document to poll
	+FMI		x	Request manufacturer ID
	+FMM		x	Request model ID
	+FMR		x	Request revision ID
	+FMS		x	Minimum phase C speed
	+FNR		x	Negotiation message reporting
	+FNS		x	Non-standard frame FIF octet string
	+FPI		x	Local polling ID string
	+FPP		x	Packet protocol command

Category	AT Command	6090	810	Description
	+FPS		x	Page status
	+FRQ		x	Receive quality threshold
	+FRY		x	ECM Retry Count
	+FSP		x	Request to poll
	+FCLASS		x	DCE mode
	+VTS	x	x	DTMF generation
	+CGDCONT		x	Define PDP context
	+CGQREQ		x	Quality of service profile (requested)
	+CGQMIN		x	Quality of service profile (minimum acceptable)
	+CGATT		x	GPRS attach or detach
	+CGACT		x	PDP context activate or deactivate
	+CGDATA		x	Enter data state
	+CGREG		x	GPRS network registration status

Miscellaneous commands

V.25ter

A/	x	x	Repeat last command line
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NMP specific

S47	x	x	Force fax class 2/2.0 error correction mode
S48		x	Force fax 14.4kB
+CBCIE		x	Bearer Capability Information Element
*D		x	RLP status
*NOKIAFBUS		x	Enter FBUS mode

Category	AT Command	6090	810	Description
Commands				
	+CIND	x	x	Indicator control
	+CMER	x	x	Mobile Equipment event reporting
	+BLDN		x	Last number redial
	+BVRA		x	Voice recognition
	+NREC		x	Echo canceling / noise reduction
	+VGM		x	Microphone gain
	+VGS		x	Speaker gain
	+CKPD=200		x	Head-Set button press
Result codes				
	+CIEV	x	x	indications
	+VGM			microphone gain changed
	+VGS		x	speaker gain changed
	+BVRA			voice recognition
<u>Result codes</u>				
V.25ter				
	+ER			Error control report
	+DR		x	Data compression report
	+ILRR		x	DTE-DCE local rate report

Category	AT Command	6090	810	Description
<u>De facto</u>				
GSM 07.07				
	+CSSI		x	Intermediate supplementary service notification
	+COLP		x	Connected line identification report
	+CR		x	Data service report
	+CRING		x	Distinctive ring
	+CLIP		x	Calling line identification report
	+CSSU		x	Unsolicited supplementary service notification
	+CCWA			Call waiting
	+CREG	x		Network registration
	+CUSD		x	Network initiated unstructured supplementary service data
	+CME		x	ERROR Mobile equipment error
	+CHSR		x	HSCSD parameters report
GSM 07.05				
	+CMTI		x	New SMS-DELIVER indication
	+CMT		x	New SMS-DELIVER
	+CBM		x	New CBM
	+CDSI		x	New SMS-STATUS-REPORT indication
	+CDS		x	New SMS-STATUS-REPORT
	+CMS		x	ERROR Message service failure
Error values				
	+CME		x	ERROR values

Category	AT Command	6090	810	Description
Keypad Simulation				
	+CKPDX	x	x	+CKPD
	+CIMI	x	x	request IMSI
	+CLCC	x	x	list current calls
	+CMEC	x	x	ME control mode
				Define Communications Mode Option
	&Q	x		
	+CALA	x		alarm
	+CCLK	x	x	clock
	+CCUG	x	x	closed user group
	+CPAS	x	x	phone activity status
	+EB	x		break handling in error control operation
	+EFCS	x		32-bit frame check sequence
	+ETBM	x		call termination buffer management
	S46	x		force V.42bis data compression

For further information on the use of the Nokia 810 car phone please consult the relevant User's Guides.

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