TRS-80

Model 100

Quick

Reference Guide

Note:	You may redefine any of the function keys within BASIC. See KEY under Keyboard Input for details.

NUMERIC AND STRING OPERATORS

- Addition or unary plus (numeric) or concatenation (string)
- Subtraction or unary minus
- Multiplication
- Division
- Integer division
- Exponentiation

MOD modulus arithmetic

RELATIONAL OPERATORS

<	less than

- > greater than equal
- <= or =< less than or equal to
- greater than or equal to
- <> or >< not equal to</pre>

LOGICAL OPERATORS

AND	logical AND operation
OR	logical OR operation
XOR	exclusive OR operation
EQV	equivalence operation
IMP	implication operation
NOT	logical NOT operation

OPERATOR HIERARCHY

Parentheses, $^{\wedge}$, +-, */, MOD, +-, $\{<>==>$ <=><} NOT, AND, OR, XOR, EQV, IMP

Within an expression, operators on NOTE: the same level are evaluated from left to right, with the exception of parentheses, which are evaluated from inside to outside.

DATA RANGES

Integers:

-32768 to 32767

Single precision:

+- 10^-64th to +- 10^62nd (6 significant digits)

Double precision:

+- 10^-64th to +- 10^62nd (14 significant digits)

Strings:

0 to 255 characters

NOTE:	Unless explicitly defined, the
	Model 100 considers all constants
	and variables, as well as numeric
	functions, as double precision.

DECLARATION TAGS

. /	• .	
%	integer	

- single precision
- double precision

\$ string	
	ERROR CODES
1	NF NEXT without FOR
2	SN Syntax Error
3	RG RETURN without GOSUB
4	OD Out of Data
5	FC Illegal function call
6	OV Overflow
7	OM Out of Memory
8	UL Undefined line
9	BS Bad Subscript
10	DD Doubly Dimensioned Array
11	/0 Division by Zero
12	ID Illegal Direct
13	TM Type Mismatch
14	OS Out of String Space
15	LS String Too Long
16	ST String Formula Too Complex
17	CN Can't Continue
18	IO Error
19	NR No RESUME
20	RW RESUME Without Error
21	UE Undefined Error
22	MO Missing Operand
23-49	UE Undefined Error
50	IE Undefined Error
51	BN Bad File Number
52	FF File Not Found
53	AO Already Open
54	EF Input Past End of File
55	NM Bad file name
56	DS Direct Statement in File
57	FL Undefined Error
58	CF File Not Open
59-255	UE Undefined Error
	BASIC KEYWORDS
ADC(m)	va avia avavaggiav)

ABS(numeric expression)

ASC(string expression) ATN(numeric expression)

CALL address, expression1, expression2

	FUNCTION KEYS
LABEL	display the labels
PRINT	LCOPY {enter}
SHIFT/PRINT	LLIST {enter}
F1	FILES {enter}
F2	LOAD"
F3	SAVE"
F4	RUN {enter}
F5	LIST {enter}
F8	MENU {enter}

CDBL(numeric expression) CHR\$(numeric expression) CINT(numeric expression) CLEAR string space, high memory CONT COS(numeric expression) CSNG(numeric expression) DATA constant list DATE\$ DAY\$ DEFDBL letter list DEFENT letter list DEFSNG letter list DEFSTR letter list DIM variable name(dimensions) EDIT line number range **END** ERL **ERR** ERROR numeric expression EXP(numeric expression) FIX(numeric expression) FOR *counter* = *initial* TO *final* [STEP increment] NEXT [counter variable] FRE(expression) GOSUB line number RETURN GOTO line number HIMEM IF relational-or-logical expression THEN command(s)1 ELSE *commands(s)2* INP(port number) INSTR(start position, source\$,target\$) INT(numeric expression) LEFT\$(string\$, length) LEN(string\$) [LET] variable = expression LOG(numeric expression) **MENU** MID\$(string\$, position, length) MID\$(string\$, position, length) =string\$ **NEW** ONERRORGOTO line number ONTIME\$="HH:MM:SS"GOSUB line number ON numeric expression GOTO line number list ON numeric expression GOSUB line number list

OUT portnumber, bytevalue PEEK(memory address) POKE memory address, byte value POWER(numeric expression) POWER CONT POWER OFF, RESUME READ variable list **REM** comments RESTORE line number RESUME line number **RETURN** RIGHT\$(string\$, length) RND(numeric expression) RUN line number SGN(*numeric expression*) SIN(numeric expression) SPACE\$(length) SQR(numeric expression) **STOP** STR\$(numeric expression) STRING\$(length, character) TAN(numeric expression) TIMES\$ TIME ON or OFF or STOP VAL(string\$) VARPTR(variable name) **PRINT Formats** PRINT USING format; variable list Format is a string with some of the following: \$\$ Display a "\$" at beginning of number # Number place holder Sign place holder Character // String ** Leading Asterisks **Insert Commas** Insert decimal point SOUND

This is a number from 6 to 8, where 6=6bits; 7=7bits; 8=8bits.

p - Parity:

Either E,O,I, or N, where E=even; O=odd; I=ignore; N=none

b - Stop Bits:

Either 1 or 2, where 1=1 stop bit; 2=2stop bit.

s - Xon/Xoff Status:

Either E or D, where E=enable; D=disable

MODEM/SERIAL PORT PARAMETERS

r - Baud Rate:

This is a number from 1 to 9, where 1=75; 2=110; 3=300; 4=600; 5=1200; 6=2400; 7=4800; 8=9600; 9=19200.

w - Word Length: