

6K Series Commands — Functional Grouping

Alarm Events

INTHW
INTSW
TIMINT

Assignment & Comparison

A
AD
ANI
AS
ASX
D
DAC
DAT
DPTR
DREAD
DREADF
ER
FB
FS
IN
INO
LIM
MOV
NMCY
OUT
PANI
PC
PCC
PCE
PCMS
PE
PER
PMAS
PSHF
PSLV
READ
SEG
SS
SWAP
TIM
TRIG
TW
US
V
VAR
VARI
VARS
VEL
VELA
VMAS

Branching – Conditional

ELSE
IF
NIF
NWHILE
REPEAT
UNTIL
WHILE

Branching – Unconditional

GOSUB
GOTO
JUMP
L
LN
LX
PLN
PLOOP

Command Buffer Control

COMEXC
COMEXL
COMEXR
COMEXS
GOWHEN

Communication Interface

[
]
ADDR
BAUD
BOT
E
ECHO
EOL
EOT
ERRBAD

ERRDEF
ERRLVL
ERROK
LOCK
NTADDR
NTMASK
PORT
READ
RESET
TNTMAC
WRITE
WRVAR
WRVARB
WRVARI
WRVARS
XONOFF

Contouring

DEF
END
MEMORY
PA
PAA
PAB
PAD
PADA
PARCM
PARCOM
PARCOP
PARCP
PAXES
PCOMP
PEXE
PL
PLC
PLIN
POUT
PPRO
PRTOL
PRUN
PTAN
PUCOMP
PV
PWC
TDIR
TMEM

Controller Configuration

AXSDEF
CMDDIR
DRFEN
EFAIL
ENCCNT
INDUSE
INDUST
KDRIVE
MEMORY
NTADDR
PULSE
SFB
TIO
TNTMAC
TREV
TSTAT

Data Storage

DAT
DATA
DATP
DATPTR
DATRST
DATSIZ
DATTCH
DPTR
TDPTR
TW

Display (status)

TANI
TAS
TASF
TASK
TASKF
TCMDER
TDIR
TDPTR
TER
TERF
TEX
TFB
TFS
TFSF

TGAIN
TIN
TINO
TINOF
TIO
TLABEL
TLIM
TMEM
TNMCY
TNTMAC
TOUT
TPANI
TPC
TPCC
TPCE
TPCME
TPCMS
TPE
TPER
TPMAS
TPROG
TPSHF
TPSLV
TPREV
TSCAN
TSEGV
TSS
TSSF
TSTAT
TSTLT
TSWAP
TTASK
TTIM
TTRIG
TUS
TVEL
TVELA
TVMAS

Drive Config.

DRES
DRFEN
DRFLVL
DRIVE
KDRIVE

Encoder

EFAIL
ENCCNT
ENCPOL
ENCSND
ERES
ESDB
ESK
ESTALL
FB
MEPOL
MESND
PCE
PCME
PE
PER
PESET
PME
PMECLR
SFB
TFB
TPCE
TPCME
TPE
TPER
TPME

Inputs

ANI
ANLEN
ANIFB
ANIMAS
ANIRNG
DRFEN
DRFLVL
IN
INDEB
INEN
INFNC
INLVL
INO
INPLC
INSELP
INSTW
LIM
LIMEN
LIMFNC
LIMLVL
TIN
TINO
TINOF
TIO
TLIM
TRGFN
TRGLOT
TRIG
TTRIG

Error Handling

ER
ERRBAD
ERRLVL
ERROR
ERRORP
TCMDER
TER
TERF

Following

ANIMAS
FFILT
FGADV
FMAXA
FMAXV
FMCLEN
FMCNEW
FMCP
FOLEN
FOLK
FOLMAS

FOLMD
FOLRD
FOLRN
FOLRNF
FPPEN
FSHFC
FSHFD
FVMACC
FVMFRQ
GOWHEN
NMCY
PCMS
PMAS
PSHF
PSLV
SCLD
SCLMAS
TFS
TFSF
TNMCY
TPCME
TPCMS
TPMAS
TPSHF
TPSLV
TRGFN
TVMAS
VMAS

Homing

HOM
HOMA
HOMAA
HOMAD
HOMADA
HOMBAC
HOMDF
HOMEDG
HOMV
HOMVF
HOMZ
IN
INFNC
LIM
LIMFNC
LIMLVL
TIN
TLIM

Joystick

ANI
ANLEN
ANIFB
ANIMAS
ANIRNG
DRFEN
DRFLVL
IN
INDEB
INEN
INFNC
INLVL
INO
INPLC
INSELP
INSTW
LIM
LIMEN
LIMFNC
LIMLVL
TIN
TINO
TINOF
TIO
TLIM
TRGFN
TRGLOT
TRIG
TTRIG

Interrupt to Program

ONCOND
ONIN
ONP
ONUS
ONVARA
ONVARB

Jogging

INFNC
JOG
JOGA
JOGAA
JOGAD

JOGADA
JOGVH
JOGVL
LIMFNC
ANI
ANLEN
ANIRNG
INFNC
JOY
JOYA
JOYAA
JOYAD
JOYADA
JOYAXH
JOYAXL
JOYXDB
JOYCTR
JOYEDB
JOYVH
JOYVL
JOYZ
LIMFNC
TIO

Limits (End-Of-Travel)

INFNC
LH
LHAD
LHADA
LIM
LIMEN
LIMFNC
LIMLVL
LS
LSAD
LSADA
LSNEG
LSPOS
TLIM

Loops

L
LN
LX
PLN
PLOOP

Motion

A
[A]
AA
AD
[AD]
ADA
C
D
[D]
GO
GOWHEN
^K
K
MA
MC
MOV
PSET
PESET
S
V
[V]

Motion (Compiled)

FOLRNF
GOBUF
PCOMP
PEXE
PLN
PLOOP
POUT
PRUN
PUCOMP
SEG
TSEG
VF

Motion (Linear Interpolated)

D
GOL
JOGAA
JOGAD

PAA
PAD
PADA
PV
SCLD

Motion (S-Curve)

AA
ADA
HOMAA
HOMADA
JOGAA
JOGADA
JOYAA
JOYADA
LHADA
LSADA
PAA
PADA

Multi-Tasking

% (Task I.D.)
LOCK
SWAP
TASK
TSKAX
TSKTRN
TSWAP
TTASK

Operators (Bitwise)

&
|
^
~
<<
>>

Operators (Logical)

AND
NOT
OR

Operators (Math)

=
()
+
-
*
/
SQRT

Operators (Other)

!
@
;
\$

,
(period)
"
\
[
]

Operators (Relational)

=
>
>=
<
<=
<>

Operators (Trig)

ATAN
COS
PI
RADIAN
SIN
TAN

Outputs

OUT
[OUT]
OUTALL
OUTEN
OUTFNC
OUTLVL
OUTP
OUTPLC

OUTTW
POUT
TIO
TOUT

PLC Program

EXE
PEXE
PLCP
SCANP
TSCAN

Power-Up Execution

RESET
STARTP

Program Debug Tools

ANLEN
BP
HELP
INEN
OUTEN
STEP
TCMDER
TRACE
TRACEP
TRANS

Program Definition & Execution

DATP
DEF
DEL
END
ERASE
ERRORP
EXE
INFNC
INSELP
MEMORY
ONP
PEXE
PLCP
RUN
SCANP
SEG
STARTP
TDIR
TEX
TMEM
TPROG
TSEG
\$

Program Flow Control

BP
BREAK
C
ELSE
GOSUB
GOTO
GOWHEN
HALT
IF
JUMP
L
LN
LX
NIF
NWHILE
PS
REPEAT
T
TRACEP
UNTIL
WAIT
WHILE

Registration & Position Capture

INFNC
PCC
PCE
PCME
PCMS
RE
REG
REGLOD
REGSS

TPCC
TPCE
TPCME
TPCMS
TRGLOT
TRIG
TTRIG

RP240

DCLEAR
DJOG
DKEY
DLED
DPASS
DPCUR
DREAD
DREADF
DREADI
DRPCHK
DSTP
DVAR
DVARB
DVARI
DWRITE

Scaling

SCALE
SCLA
SCLD
SCLV
SCLMAS

Servo

CMDDIR
DAC
DACLIM
FB
SFB
SGAF
SGENB
SGI
SGILIM
SGP
SGSET
SGV
SGVF
SMPER
SOFBS
STRGTD
STRGTE
STRGTT
STRGTV
TDAC
TFB
TGAIN
TSGSET
TSTLT

Timer

TIM
TIMINT
TIMST
TIMSTP
TTIM

Variables

DVAR
DVARB
DVARI
DWRITE
VAR
VARB
VARCLR
VARI
VARS
VCVT
WRVAR
WRVARB