

Use this locator to find the applicable Logix5000 controllers instruction manual for each instruction.

Logix5000 Controllers General Instructions Reference Manual 1756-RM003	Logix5000 Controllers Advanced Process Control and Drives and Equipment Phase and Sequence Instructions Reference Manual 1756-RM006	Logix5000 Controllers Motion Instructions Reference Manual MOTION-RM002
Absolute Value (ABS)	Alarm (ALM)	Master Driven Coordinated Control (MDCC)
Add (ADD)	Attach to Equipment Phase (PATT)	Motion Apply Axis Tuning (MAAT)
Analog Alarm (ALMA)	Attach to Equipment Sequence (SATT)	Motion Apply Hookup Diagnostics (MAHD)
Always False (AFI)	Coordinated Control (CC)	Motion Arm Output Cam (MAOC)
Arc Cosine (ACS, ACOS)	D Flip-Flop (DFF)	Motion Arm Registration (MAR)
Arc Sine (ASN, ASIN)	Deadtime (DEDT)	Motion Arm Watch (MAW)
Arc Tangent (ATN, ATAN)	Derivative (DERV)	Motion Axis Fault Reset (MAFR)
ASCII Chars in Buffer (ACB)	Detach from Equipment Phase (PDET)	Motion Axis Gear (MAG)
ASCII Clear Buffer (ACL)	Detach from Equipment Sequence (SDET)	Motion Axis Home (MAH)
ASCII Handshake Lines (AHL)	Discrete 3-State Device (D3SD)	Motion Axis Jog (MAJ)
ASCII Read (ARD)	Discrete 2-State Device (D2SD)	Motion Axis Move (MAM)
ASCII Read Line (ARL)	Enhanced PID (PIDE)	Motion Axis Position Cam (MAPC)
ASCII Test for Buffer Line (ABL)	Enhanced Select (ESEL)	Motion Axis Stop (MAS)
ASCII Write (AWT)	Equipment Phase Clear Failure (PCLF)	Motion Axis Time Cam (MATC)
ASCII Write Append (AWA)	Equipment Phase Command (PCMD)	Motion Axis Shutdown (MASD)
Bit Field Distribute (BTD)	Equipment Phase External Request (PXRQ)	Motion Axis Shutdown Reset (MASR)
Bit Field Distribute with Target (BTDT)	Equipment Phase Failure (PFL)	Motion Calculate Cam Profile (MCCP)
Bit Shift Left (BSL)	Equipment Phase New Parameters (PRNP)	Motion Coordinated Path Move (MCPM)
Bit Shift Right (BSR)	Equipment Phase Override Command (POVR)	Motion Calculate Slave Values (MCSV)
Bitwise And (AND)	Equipment Phase Paused (PPD)	Motion Coordinated Transform with Orientation (MCTO)
Bitwise (NOT)	Equipment Sequence Assign Sequence Identifier (SASI)	Motion Calculate Transform Position (MCTP)
Bitwise (OR)	Equipment Sequence Clear Failure (SCLF)	Motion Calculate Transform Position with Orientation (MCTPO)
Boolean AND (BAND)	Equipment Sequence command (SCMD)	Motion Change Dynamics (MCD)
Boolean Exclusive OR (BXOR)	Equipment Sequence Override (SOVR)	Motion Coordinated Change Dynamics (MCCD)
Boolean NOT (BNOT)	Function Generator (FGEN)	Motion Coordinated Circular Move (MCCM)
Boolean OR (BOR)	High Pass Filter (HPF)	Motion Coordinated Linear Move (MCLM)
Break (BRK)	High/Low Limit (HLL)	Motion Coordinated Shutdown (MCSD)
Breakpoints (BPT)	HMI Button Control (HMIBC)	Motion Coordinated Shutdown Reset (MCSR)
Clear (CLR)	Integrator (INTG)	Motion Coordinated Stop (MCS)
Compare (CMP)	Internal Model Control (IMC)	Motion Coordinated Transform (MCT)
Convert to BCD (TOD)	JK Flip-Flop (JKFF)	Motion Direct Drive Off (MDF)
Convert to Integer (FRD)	Lead-Lag (LDLG)	Motion Direct Drive On (MDO)
Copy File (COP), Synchronous Copy File (CPS)	Low Pass Filter (LPF)	Motion Direct Start (MDS)
Cosine (COS)	Maximum Capture (MAXC)	Motion Disarm Output Cam (MDOC)
Compute (CPT)	Minimum Capture (MINC)	Motion Disarm Registration (MDR)
Count down (CTD)	Modular Multivariable Control (MMC)	Motion Disarm Watch (MDW)
Count up (CTU)	Moving Average (MAVE)	Motion Group Shutdown (MGSD)

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Count up/down CTUD	Moving Standard Deviation (MSTD)	Motion Group Shutdown Reset (MGSR)
Data Transition (DTR)	Multiplexer (MUX)	Motion Group Stop (MGS)
Degrees (DEG)	Notch Filter (NTCH)	Motion Group Strobe Position (MGSP)
Diagnostic Detect (DDT)	Phase State Complete (PSC)	Motion Redefine Position (MRP)
Digital Alarm (ALMD)	Position Proportional (POSP)	Motion Run Axis Tuning (MRAT)
DINT To String (DTOS)	Process Analog HART (PAH)	Motion Run Hookup Diagnostics (MRHD)
Divide (DIV)	Process Analog Input (PAI)	Motion Servo Off (MSF)
End of Transition (EOT)	Process Dual Sensor Analog Input (PAID)	Motion Servo On (MSO)
Equal to (EQU)	Process Multi Sensor Analog Input (PAIM)	
File Arithmetic (FAL)	Process Analog Output (PAO)	
File Bit Comparison (FBC)	Process Boolean Logic (PBL)	
FIFO Load (FFL)	Process Command Source (PCMDSRC)	
FIFO Unload (FFU)	Process Deadband Controller (PDBC)	
File Average (AVE)	Process Discrete Input (PDI)	
File Standard Deviation (STD)	Process Discrete Output (PDO)	
File Fill (FLL)	Process Dosing (PDOSE)	
File Sort (SRT)	Process Analog Fanout (PFO)	
Find String (FIND)	Process High or Low Selector (PHLS)	
For (FOR)	Process Interlocks (PINTLK)	
File Search and Compare (FSC)	Process Lead Lag Standby Motor Group (PLLS)	
Get System Value (GSV) and Set System Value (SST)	Process Motor (PMTR)	
Greater Than or Equal to (GEQ)	Process Permissives (PPERM)	
Greater than (GRT)	Process Proportional + Integral + Derivative (PPID)	
Insert String (INSERT)	Process Pressure/Temperature Compensated Flow (PPTC)	
Immediate Output (IOT)	Process Restart Inhibit (PRI)	
Is Infinity (IsINF)	Process Run Time and Start Counter (PRT)	
Is Not a Number (IsNAN)	Process Tank Strapping Table (PTST)	
Jump to Label (JMP) and Label (LBL)	Process Valve (PVLV)	
Jump to Subroutine (JSR), Subroutine (SBR), and Return (RET)	Process Valve Statistics (PVLVS)	
Jump to External Routine (JXR)	Proportional + Integral (PI)	
Less Than (LES)	Pulse Multiplier (PMUL)	
Less Than or Equal to (LEQ)	Ramp/Soak (RMPS)	
LIFO Load (LFL)	Rate Limiter (RLIM)	
LIFO Unload (LFU)	Reset Dominant (RESD)	
License Validation (LV)	Scale (SCL)	
Limit (LIM)	S-Curve (SCRV)	
Log Base (LOG)	Second-Order Controller (SOC)	
Lower to Case (LOWER)	Second-Order Lead Lag (LDL2)	
Masked Move (MVM)	Select (SEL)	
Masked Move with Target (MVMT)	Selected Negate (SNEG)	
Master Control Reset (MCR)	Selected Summer (SSUM)	

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Masked Equal to (MEQ)	Set Dominant (SETD)	
Message (MSG)	Split Range Time Proportional (SRTP)	
Middle String (MID)	Totalizer (TOT)	
Modulo (MOD)	Up/Down Accumulator (UPDN)	
Move (MOV)		
Multiply (MUL)		
Natural Log (LN)		
Negate (NEG)		
Not Equal to (NEQ)		
No Operation (NOP)		
One Shot (ONS)		
One Shot Falling (OSF)		
One Shot Falling with Input (OSFI)		
One Shot Rising (OSR)		
One Shot Rising with Input (OSRI)		
Output Energize (OTE)		
Output Latch (OTL)		
Output Unlatch (OTU)		
Proportional Integral Derivative (PID)		
Radian (RAD)		
Real to String (RTOS)		
Reset (RES)		
Reset SFC (SFR)		
Return (RET)		
Retentive Timer On (RTO)		
Retentive Timer On with Reset (RTOR)		
Pause SFC (SFP)		
Size In Elements (SIZE)		
Sequencer Input (SQI)		
Sequencer Load (SQL)		
Sequencer Output (SQO)		
Sine (SIN)		
Square Root (SQR/SQRT)		
String Concatenate (CONCAT)		
String Delete (DELETE)		
String to DINT (STOD)		
String to REAL (STOR)		
Swap Byte (SWPB)		
Subtract (SUB)		
Tangent (TAN)		
Timer Off Delay (TOF)		
Timer Off Delay with Reset (TOFR)		
Timer On Delay (TON)		
Timer On Delay with Reset (TONR)		
Temporary End (TND)		

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Tracepoints (TPT)		
Trigger Event Task (EVENT)		
Truncate (TRN)		
Unknown Instruction (UNK)		
Upper Case (UPPER)		
User Interrupt Disable (UID)/User Interrupt Enable (UIE)		
X to the Power of Y (XPY)		
Examine if Closed (XIC)		
Examine If Open (XIO)		
Bitwise Exclusive (XOR)		