

Topical Directory of Technical Resources

Listed Alphabetically

[120vac Control](#)
[4-20mA Methods](#)
[Analog Methods](#)
[Beckhoff Remote I/O](#)
[Blower Applications](#)
[Braking](#)
[Commander SE](#)
[Commander SK](#)
[Communications](#)
[Comparator Applications](#)
[Cooling](#)
[Creep](#)
[CTIU](#)
[CTNet](#)
[CTSoft](#)
[CTVue](#)
[Defaults](#)
[Drive Conversion](#)
[Drive Displays](#)
[Drive Tuning](#)
[Driving Analog Meters](#)
[Driving Relays](#)
[Dual Stopping Rates](#)
[Dynamic Braking](#)
[Educational](#)
[Encoder Methods](#)
[Energy Savings](#)
[Ethernet](#)
[Fan Applications](#)
[Fault Codes](#)
[Field Bus](#)
[Field Control](#)
[Filtering](#)
[HMI](#)
[HMI Control](#)
[I/O](#)
[Jog](#)
[LCD Display](#)
[Line Conditioning](#)
[Line Reactors](#)
[Line Speed plus Trim](#)
[Load Sharing](#)
[Local/Remote Control](#)
[Maintenance](#)
[Manuals](#)
[Mentor I](#)
[Mentor I Replacement](#)
[Mentor II](#)
[Mentor II Replacement](#)
[MD21](#)
[MOP Usage](#)
[Noise Suppression](#)
[Parameter Preservation & Restoration](#)
[Parts](#)
[PID Control](#)
[Pressure Regulation](#)
[Programmable Logic Gates](#)
[Pump Applications](#)
[Quantum II](#)
[Quantum III](#)
[Quantum III Replacement](#)
[Quick Start Guidance](#)
[Ratio Methods](#)
[Real Time Clock](#)
[Remote Control](#)
[Remote I/O](#)
[Repairs](#)
[Replacement Parts](#)
[Resetting Drive to Default State](#)
[Resolver](#)
[S Ramp Acceleration](#)
[Security Codes](#)
[Smart Card](#)
[Smart Stick](#)
[Start-Up Guidance](#)
[SyPT](#)
[SyPT Lite](#)
[SyPT Lite App Notes](#)
[Technical Support](#)
[Time Delays](#)
[Torque Control](#)
[Training](#)
[Troubleshooting](#)
[Tuning](#)
[Unidrive Classic](#)
[Unidrive Classic Replacement](#)
[Unidrive SP](#)
[Upgrades](#)
[Warranty](#)
[Winding](#)

120vac Control

CTAN217	Universal AC Interface	120vac Logic Interface
CTAN224	Quantum III	Interfacing a PLC to the Quantum III
CTAN241	Focus 3	120vac Remote Control Pushbuttons
CTAN346	Commander SK	120vac Start/Stop Control
CTAN347	Unidrive SP, Affinity	120vac Start/Stop Control

4-20mA Methods

CTAN156	Quantum III/ Mentor II	Auto (4-20mA) /Manual Operation
CTAN251	Unidrive Classic	4-20mA Control Guidelines
CTAN273	Commander SK	Remote Keypad in the Hand-Off-Auto Mode
CTAN274	Commander SK	Remote Analog / Local Keypad Control
CTAN290	Unidrive SP/GP20/MP	4-20mA Current Loop Extensions
CTAN348	Fincor 2230	Reversing Fincor 2230 Series w/UniPolar Signal
CTAN349	SK, SP, MP, Affinity	Inverting the Sense of Speed Command Signals

Analog Methods

CTAN111	Mentor II/Quantum III	Programmable Analog I/O
CTAN115	Unidrive	Analog Ratio Applications
CTAN145	Unidrive and Commander SE	Analog Input/Output Scaling
CTAN169	Unidrive Family	UD78 Precision Analog Input Module
CTAN188	Quantum III/ Mentor II	%Load Meter Outputs
CTAN212	Quantum III/ Mentor II	Creating UniPolar %Speed Meter O/P
CTAN229	Commander SE	Bi-Directional Speed Pot Applications
CTAN239	Commander SE	Analog Input Configurations
CTAN242	All	Interfacing Analog Meters
CTAN276	Commander SE, SK	Bi-Polar Analog Speed Control
CTAN281	Focus 3 Regen	Reversing Focus 3 Regen w/UniPolar Command
CTAN301	Mentor II/Quantum III	Eliminating Motor Creep
CTAN321	SP/GP20/SK/MP	Obtaining the Greater or Lesser of Two Signals
CTAN326	UndriveSP, GP20, Affinity	Analog Output Scaling of Common Values
CTAN331	SP, Classic, MP	Creating a UniPolar Analog Speed Output
CTAN345	Affinity, Commander SK, DigitAx, Mentor/Quantum MP, Unidrive SP	Stabilizing Erratic Signals
CTAN354	SP, SK,MP, Affinity	Eliminating Low Speed Creep w/Analog Inputs
CTAN363	Affinity	Re-Scaling Analog Speed w/ Min Speed

[Return to Top](#)

Beckhoff Remote I/O

CTAN283	Unidrive SP/MP	Using Beckhoff Remote I/O
CTAN295	CTNet Options	Supported Beckhoff I/O Modules

Blower Applications

CTAN254	Commander SE	Fan & Pump Setup Guidelines
CTAN293	Commander SK	Fan and Pump Application Setup
CTAN312	Unidrive SP/GP20/SK	Creating a Broken Belt Alarm
CTAN324	Affinity Series	Fan & Pump with PID Loop Control

[Commander SE](#)

[Commander SE Replacement](#)

[Commander SE Manual](#)

[Commander SK](#)


[Commander SK Fault Codes](#)

[Return to Top](#)

Communications

CTAN129	UD75/MD29AN	Detecting CNet Comms Loss
CTAN131	All	Modem Communications
CTAN135	UD77/Unidrive	DeviceNet Quick Setup
CTAN136	UD73/Unidrive	Profibus Quick Setup
CTAN137	UD74/Unidrive	Interbus Quick Setup
CTAN165	Commander SE	Modbus Protocol Setup
CTAN196	MD25 / Mentor II	Quick Setup for DeviceNet MD25
CTAN197	MD25 / Quantum III	Quick Setup for DeviceNet MD25
CTAN202	CNet Capable Products	CNet PCMCIA w/Desktop PC's
CTAN210	UD76/Unidrive	ModbusPlus Quick Setup
CTAN220	MD24 / Mentor II	Quick Setup for Profibus MD24
CTAN221	MD24 / Quantum III	Quick Setup for Profibus MD24
CTAN255	UD75 & MD29AN	CNet Revision FAQ's
CTAN259	Unidrive SP	Quick Setup Guide w/CNet
CTAN262	Unidrive SP	Accessing 32 bit Data via Modbus RTU
CTAN288	SM-Ethernet	Establishing PC Connection to SM-Ethernet Module
CTAN297	SP/GP20/SK/MP	SM-Ethernet Save, Restore & Re-Init
CTAN306	SP/GP20/SK/MP	SM-DeviceNet Save, Restore & Re-Init
CTAN317	Unidrive SP/GP20/SK	SM-Profibus Unidrive (UD73) Compatibility Mode
CTAN320	All	Rudiments of Fieldbus Communications
CTAN327	Commander SK	Comm SK and SM-DeviceNet Quick Start Guide
CTAN333	Commander SK	Comm SK and SM-Profibus Quick Start Guide
CTAN335	Unidrive SP	CNet Basic Practices and Checkout
CTAN356	Affinity	BACnet Control Setup
CTAN360	CNet	Tripping the Drive upon a CNet Loss

Comparator Applications

CTAN312	Unidrive SP/GP20/SK	Creating a Broken Belt/Ruptured Pipe Alarm
CTAN313	SP/GP20/SK/MP	Using Keypad Plus as Startup Tool
CTAN345	All Our Drives	Stabilizing Erratic Signals
CTSL012 	SyPT Lite	Making Comparators Practical

Cooling

CTAN153	Unidrive	Cabinet Cooling Fan Optimization
CTAN319	AC Drives	Squeezing a Bit More from your DB Resistor

CTIU

CTAN164	Unidrive Family	Remote Keypad Control using CTIU
CTAN245	CTIU HMI's	Creating a Custom Splash Screen
CTAN246	Unidrive & CTIU HMI's	Creating a Unidrive Fault Screen
CTAN247	Unidrive & CTIU HMI's	Creating a Fault History Screen
CTAN248	CTIU HMI's	Custom Splash Screen using Maths
CTAN249	Mentor II/Quantum III & CTIU HMI's	Creating a Quantum III Fault Screen





CTSoft

CTAN310	Unidrive Classic	Extracting all Drive and CoProcessor Data w/CTSoft
CTAN353	SP, MP, Affinity	Backing Up Critical Drive Setup using CTSoft
CTAN355	Commander SK	Backing Up Critical Drive Setup using CTSoft

CTNet

CTAN129	UD75/MD29AN	Detecting CTNet Comms Loss
CTAN202	CTNet Products	CTNet PCMCIA w/Desktop PC's
CTAN255	UD75 & MD29AN	CTNet Revision FAQ's
CTAN259	Unidrive SP	Quick Setup Guide w/CTNet
CTAN308	CTNet	The Basics of Setting-up CTNet Cyclic Links
CTAN335	Unidrive SP	CTNet Basic Practices and Checkout
CTAN360	CTNet	Tripping the Drive upon a CTNet Loss
CTTN150	CTNet	CTNet Setup and Troubleshooting






Defaults

CTAN157	Quantum III	Quantum III Factory Default Files
CTVI119 	Commander SK	Returning the Drive to Factory Settings
CTVI120 	Unidrive SP,GP20, Affinity	Returning the Drive to Factory Settings
CTVI124 	Quantum III/Mentor II	Returning the Drive to Factory Settings
CTVI126 	Unidrive Classic	Setting Unidrive Classic to Factory Default
CTAN369	Quantum MP	Quantum MP Default Files

Drive Conversion



CTAN147	AC Drives	Horizon Replacement w/ Comm SE
CTAN148	AC Drives	Prism Replacement w/ Comm SE
CTAN149	AC Drives	Laser Replacement Options
CTAN150	AC Drives	Eclipse Replacement Options
CTAN205	Quantum III Family	Spectrum Drive Replacement
CTAN206	Quantum III Family	VIP Drive Replacement
CTAN207	Quantum III Family	ES2300RG Drive Replacement
CTAN208	UnidriveSP Rapidpak	AS5100 Series Drive Replacement
CTAN257	Quantum III	Quantum II to QIII Conversion Guide
CTAN263	Mentor I to Mentor II	Co-Processor Conversion Details
CTAN265	Unidrive Classic	DigitAx Replacement Solution
CTAN277	Unidrive	Unidrive Classic to Unidrive SP Considerations
CTAN278	Unidrive	Converting from Unidrive Classic to Unidrive SP
CTAN337	Single Phase DC	Focus 1 to 2100/2300 Replacement Guidance

Drive Displays

CTAN124	MII/QIII/Unidrive/SE	Filtering for Digital Displays
CTAN159	All	Creating Custom & Power-Up Displays
CTAN180	Commander SE	Advanced CTKP Control for Comm SE
CTAN250	Unidrive SP	Customizing the LCD Keypad Unit
CTAN289	Commander SK/GP20	SM-Keypad Plus Customized Displays
CTAN313	SP/GP20/SK/MP	Using Keypad Plus as Startup Tool
CTSL005 	Commander SK	Creating a Display that sequences thru Speed, Freq, Load, Amps in Commander SK
CTSL010 	Unidrive SP, Commander GP20, SK and Affinity	Obtaining Temperature Readouts in Fahrenheit
CTVI113 	Commander SK	Selecting Alternate Display Units
CTVI117 	Commander SK	Creating Customized Displays Using LCD Display
CTVI118 	Unidrive SP,GP20, Affinity	Creating Customized Displays Using LCD Display

[Return to Top](#)

Drive Tuning

CTAN123	Mentor II/Quantum III	Current Loop Tuning (Manual/Scope method)
CTAN234	Unidrive SP	A Guide to Tuning the UnidriveSP
CTAN270	Unidrive SP	A Guide to Tuning the UnidriveSP – Winder Applications
CTAN299	Commander SK	Simple Commander SK Torque Winder
CTVI102 	Commander SK	Performing a Drive/Motor Autotune
CTVI110 	Unidrive SP,GP20, Affinity	Performing a Drive/Motor Autotune

Driving Analog Meters

CTAN188	Quantum III/ Mentor II	%Load Meter Outputs
CTAN212	Quantum III/ Mentor II	Creating UniPolar %Speed Meter O/P
CTAN242	All	Interfacing Analog Meters
CTAN326	UnidriveSP, GP20, Affinity	Analog Output Scaling of Common Values
CTAN331	SP, Classic, MP	Creating a UniPolar Analog Speed Output

Driving Relays

CTAN154	All	Driving External Relays
CTAN266	All	Relay Suppression
CTAN336	Our Drive Families	Using the Drives +24vdc Supply
CTAN359	Commander SK	Modification of the Drive Relay Function



Dual Stopping Rates

CTAN161	Unidrive Family	Dual Stopping Rates
CTAN162	Commander SE Family	Dual Stopping Rates
CTAN163	Quantum III/Mentor II	Dual Stopping Rates
CTAN329	Comm SK	Dual Stopping Rates
CTAN330	Unidrive SP, Affinity	Dual Stopping Rates

Dynamic Braking

CTAN179	General	Dynamic Braking Resistor Sizing Nomograph
CTAN192	AC Drives	E-Stop Duty DB Resistor Protection
CTAN291	All AC Drives	Dynamic Braking Sizing & Protection Methods
CTAN319	AC Drives	Squeezing a Bit More from your DB Resistor
CTAN376	Quantum MP	Configuring for Ramp Stop & DB Stop

Educational

CTAN127	AC Drives	Common Bussing Guidelines
CTAN140	MII/QIII/Unidrive/SE	Programmable Logic Gates
CTAN141	MII/QIII/Unidrive	Combinatorial Logic
CTAN142	Unidrive /MII/QIII	Comparators and Decoder Applications
CTAN176	General	Power Factor of AC & DC Drives
CTAN177	AC Drive Series	Input & Output Current of AC Drives
CTAN199	Quantum III	How to Specify Quantum III Drives
CTAN200	Unidrive	Selecting 1 of 2 Values
CTAN201	Unidrive Classic/SP, GP20, Quantum III, Mentor II	Creating a Pulsing Output for Blinking Light/Audible Alarm
CTAN204	Focus 3 Drives	Power Wiring Guidelines
CTAN223	Quantum III/ Mentor II	Inversion Faults
CTAN227	Unidrive SP	Understanding Heavy vs Normal Duty
CTAN258	Commander SE, Unidrive Classic, Mentor II/ Quantum III	Creating Proper Drive Documentation
CTAN272	Commander SK	Accessing Parameters Outside Menu 0
CTAN275	All	Need another Digital Input ?
CTAN282	SP/GP20/SK/MP	Selecting 1 of 2 Values
CTAN291	All AC Drives	Dynamic Braking Sizing & Protection Methods
CTAN304	Quantum III	Powering Up the Quantum III in your Office
CTAN308	CTNet	The Basics of Setting-up CTNet Cyclic Links
CTAN316	SP/GP20/SK/MP	Drive Parameter Menu Structure
CTAN318	All	Determining the Hardware and Firmware Levels
CTAN320	All	Rudiments of Fieldbus Communications
CTAN321	SP/GP20/SK/MP	Obtaining the Greater or Lesser of Two Signals
CTAN338	Affinity	Maintenance Due Reminder Alarms
CTAN339	Unidrive SP	Maintenance Due Reminder Alarms
CTAN344	Our AC Drive Families	Single Drive Running Multiple Motors
CTAN357	Commander SK	Start/Stop and Speed Command Scenarios
CTAN359	Commander SK	Modification of the Drive Relay Function
CTSL001 	All	How to Create a Pulser/Flasher Fault Annunciation for better Operator attention
CTSL010 	Unidrive SP, Commander GP20, SK and Affinity	Obtaining Temperature Readouts in Fahrenheit

Encoder Methods

CTAN256	Unidrive SP	Stegmann Encoder w/Hiperface
CTAN307	Unidrive SP	Commissioning Sine-Cosine Encoder Setups
CTTN155	Unidrive SP	Accommodating Single Ended Encoders

Energy Savings

CTAN175	Quantum III/Mentor II (Size 2-3)	Field Economy w/ Time Delay
CTAN293	Commander SK	Fan and Pump Application Setup
CTAN303	Mentor II/Quantum III	FXM5 Field Economy in Standalone Mode

Ethernet

CTAN288	SM-Ethernet	Establishing PC Connection to SM-Ethernet Module
CTAN300	Commander SK	Ethernet Quick Start Guide
EZAT11	SM-EZmotion	Ethernet with EZmotion

Fan Applications

CTAN254	Commander SE	Fan & Pump Setup Guidelines
CTAN312	Unidrive SP/GP20/SK	Creating a Broken Belt Alarm
CTAN293	Commander SK	Fan and Pump Application Setup

Field Bus

CTAN134	UD77/Unidrive Classic	Local/Remote via Fieldbus
CTAN135	UD77/ Unidrive Classic	DeviceNet Quick Setup
CTAN136	UD73/ Unidrive Classic	Profibus Quick Setup
CTAN137	UD74/ Unidrive Classic	Interbus Quick Setup
CTAN320	All Drives	Rudiments of Fieldbus Communications
CTAN327	Commander SK	Comm SK and SM-DeviceNet Quick Start Guide
CTAN333	Commander SK	Comm SK and SM-Profibus Quick Start Guide
CTAN340	Commander SK	Remote Control via Fieldbus/Local via Keypad

Field Control

CTAN175	Quantum III/Mentor II (Size 2-3)	Field Economy w/ Time Delay
CTAN203	Quantum III / Mentor II	DC Motors w/ 240VDC Field Voltage
CTAN284	Mentor II/Quantum III	FXM5 Field Control via External Voltage
CTAN298	Mentor II/Quantum III	FXM5 Field Loss Trips w/o Ribbon Control
CTAN303	Mentor II/Quantum III	FXM5 Field Economy in Standalone Mode
CTAN311	Mentor II/Quantum III	Accommodating Motors w/Low Field Voltages
CTTN128	Mentor II/Quantum III	Field Weakening Setup
CTAN361	Quantum MP	Field Weakening



Filtering

CTAN124	MII/QIII/Unidrive/SE	Filtering for Digital Displays
CTAN301	Mentor II/Quantum III	Eliminating Motor Creep
CTAN323	Unidrive SP/GP20/SK	Scaling and Filtering Drive Registers for HMI Displays
CTAN345	All Our Drives	Stabilizing Erratic Signals


HMI Control

CTAN164	Unidrive Family	Remote Keypad Control using CTIU
CTAN245	CTIU HMI's	Creating a Custom Splash Screen
CTAN246	Unidrive & CTIU HMI's	Creating a Unidrive Fault Screen
CTAN247	Unidrive & CTIU HMI's	Creating a Fault History Screen
CTAN248	CTIU HMI's	Custom Splash Screen using Maths
CTAN249	Mentor II/Quantum III & CTIU HMI's	Creating a Quantum III Fault Screen
CTAN260	Commander SE	Setting up with a CTIU
CTAN261	Unidrive SP	Setting up with a CTIU
CTAN280	Unidrive SP	VT Terminal Quickstart for the Unidrive SP
CTAN323	Unidrive SP/GP20/SK	Scaling and Filtering Drive Registers for HMI Displays

I/O

CTAN154	All	Driving External Relays
CTAN275	All	Need another Digital Input ?
CTAN336	Our Drive Families	Using the Drives +24vdc Supply
CTAN359	Commander SK	Modification of the Drive Relay Function
CTAN362	Quantum MP	Using the Quantum MP with 24vdc PLC Control
CTAN371	Commander SK	Assigning of the SM-I/O Lite/Timer Relay Function
CTSL011 	All Current Drives	Accessing all Inputs of an SM-I/O32 Module
CTSL013 	All Current Drives	Extending the I/O Status Byte

Jog

CTAN112	Quantum III	Independent Jog Rates
CTAN139	Quantum III/Mentor II	Contactless (Machine Gun) Jog
CTAN226	Quantum III	MOP Function w/Min Speed and Jog
CTVI115 	Commander SK	Using Keypad Remote for Jog & Thread Apps

[Return to Top](#)

LCD

CTAN250	Unidrive SP	Customizing the LCD Keypad Unit
CTAN289	Commander SK/GP20	SM-Keypad Plus Customized Displays
CTAN313	SP/GP20/SK/MP	Using Keypad Plus as Startup Tool

Line Conditioning

CTAN132	All	Line Reactors
CTAN144	All	Line Reactors & Isolation Transformers
CTAN228	Focus 1 Family	Achieving Isolation
	All Our Drives	Power Line Considerations
EMC	All Our Drives	Electromagnetic Emissions Guidance

Line Reactors

CTAN132	All	Line Reactors
CTAN144	All	Line Reactors & Isolation Transformers
CTTN148	Commander SK and SE	Single-Phase Line Reactor Connections

Line Speed plus Trim

CTAN174	Commander SE	Line Speed plus %Trim
CTAN243	Focus 3	Controlling Multiple Drives in Tandem
CTAN253	Commander SE	Line Speed plus Trim using Inc/Dec
CTAN292	Unidrive SP/GP20/SK	Process Line Speed plus Trim

Load Sharing

CTAN158	Quantum III/ Mentor II	Load Sharing Applications
CTAN181*	Unidrive	Torque Mode/Torque Follower

Local/Remote Control

CTAN134	UD77/Unidrive	Local/Remote via Fieldbus
CTAN195	Commander SE	HVAC Local/Remote Control
CTAN252	Focus 3	Local/Remote Control Modes
CTAN273	Commander SK	Remote Keypad in the Hand-Off-Auto Mode
CTAN274	Commander SK	Remote Analog / Local Keypad Control
CTAN340	Commander SK	Remote Control via Fieldbus/Local via Keypad

Maintenance

CTAN338	Affinity	Maintenance Due Reminder Alarm
CTAN339	Unidrive SP	Maintenance Due Reminder Alarm
CTAN372	AC Drives	Capacitor Bank Reformation Guidance


MD21

CTAN133	Mentor I/Quantum II	MD21 BASIC Support
CTAN263	Mentor I to Mentor II	Co-Processor Conversion Details

[Mentor I](#) [Mentor I Replacement](#)

[Mentor II](#) [Mentor II Replacement](#)

MOP Usage

CTAN114	Unidrive	MOP Applications
CTAN226	Quantum III	MOP Function w/Min Speed and Jog
CTAN233	Unidrive SP	Using the MOP with the UnidriveSP
CTAN364	Quantum MP	Quantum MP with Motorized Potentiometer
CTSL002 	Commander SK and UnidriveSP	Using built in MOP function. Resets the MOP to zero upon a start command of the drive

Noise Suppression

CTAN154	All	Driving External Relays
CTAN266	All	Relay Suppression
CTAN345	All Our Drives	Stabilizing Erratic Signals
EMC	All Our Drives	Electromagnetic Emissions Guidance

[Return to Top](#)

Parameter Preservation & Restoration

CTAN119	Unidrive	Parameter Restoration/Cloning
CTAN182	Unidrive	Data Replacement Instructions
CTAN186	Unidrive/QIII/Mentor II	Saving all Drive & Coprocessor Data
CTAN211	Unidrive	UD7x Co-Processor Replacement
CTAN225	Commander SE	Use of Cloning QuickKey
CTAN236	Commander SE	Data Replacement Instructions
CTAN258	Commander SE, Unidrive Classic, Mentor II/ Quantum III	Creating Proper Drive Documentation
CTAN297	SP/GP20/SK/MP	SM-Ethernet Save, Restore & Re-Init
CTAN310	Unidrive Classic	Extracting all Drive and CoProcessor Data w/CTSoft
CTAN328	Co Processors	Using SyPT Pro Demo as a Code Extraction Tool
CTAN352	SP, MP, Affinity, GP20	Backing Up Critical Drive Setup w/SmartCard
CTAN353	SP, MP, Affinity	Backing Up Critical Drive Setup using CTSoft
CTAN355	Commander SK	Backing Up Critical Drive Setup using CTSoft

PID Control

CTAN287	Commander SK	Water Pressure PID Loop Control
CTAN324	Affinity Series	Fan & Pump with PID Loop Control
CTAN325	Unidrive SP/GP20/SK	Simple PID Dancer Unwind
CTAN341	Commander SK	Simple Pump Setup Instruction Sheet
CTAN342	Commander SK	Water Level Control System

Pressure Regulation

CTAN222	Commander SE	Automatic Water Pressure Regulator
CTAN287	Commander SK	Water Pressure PID Loop Control
CTAN324	Affinity Series	Fan & Pump with PID Loop Control

Programmable Logic Gates

CTAN140	MII/QIII/Unidrive/SE	Programmable Logic Gates
CTAN141	MII/QIII/Unidrive	Combinatorial Logic

[Return to Top](#)

Pump Applications

CTAN254	Commander SE	Fan & Pump Setup Guidelines
CTAN293	Commander SK	Fan and Pump Application Setup
CTAN312	Unidrive SP/GP20/SK	Creating a Ruptured Pipe Alarm
CTAN324	Affinity Series	Fan & Pump with PID Loop Control
CTAN341	Commander SK	Simple Pump Setup Instruction Sheet
CTAN368	Commander SK	SK Pump Setup Summary

[Quantum II](#)

[Quantum III](#)

[Quantum III Replacement](#)

Quick Start Guidance

CTTN149	Unidrive SP	Setup/Checkout Guide
CTAN300	Commander SK	Ethernet Quick Start Guide
CTAN327	Commander SK	SM-DeviceNet Quick Start Guide
CTAN333	Commander SK	SM-Profibus Quick Start Guide
CTAN334	Commander SK	Quick Start-up Guide for FPCHSK/FPCBA
CTAN350	Mentor MP	Quick Start-Up Guide
CTAN357	Commander SK	Common Start/Stop Speed Command Scenarios
CTAN375	Quantum MP	Quantum III-> Quantum MP Conversion Guide
CTTN147	Mentor II	Mentor II Setup Guide
CTTN149	Unidrive Classic/SP	Quick Start-Up Guidance
CTTN150	SM- Apps/ App Plus	CTNET Setup and Troubleshooting


Ratio Methods

CTAN114	Unidrive	MOP Ratio Adjustment
CTAN115	Unidrive	Analog Ratio Applications
MD29DLK	Mentor II/Quantum III	Digital Lock w/ User Adjustable Ratio


Real Time Clock

CTAN332	SP,MP, SK, Affinity	Time of Day/Day of Week Applications
CTAN343	SM-IO Timer Module	Setting the Real Time Clock
CTAN358	Affinity	Setting the Real Time Clock
CTAN373	Affinity	Daily Speed Set Back based on Time of Day
CTTN156	Affinity	Replacing BA Module or Clock Battery

Remote Control

CTAN138	Quantum III	Remote On/Off Control
CTAN164	Unidrive Family	Remote Keypad Control using CTIU
CTAN224	Quantum III	Interfacing a PLC to the Quantum III
CTAN241	Focus 3	120vac Remote Control Pushbuttons
CTAN273	Commander SK	Remote Keypad in the Hand-Off-Auto Mode
CTAN274	Commander SK	Remote Analog / Local Keypad Control
CTAN283	Unidrive SP/MP	Using Beckhoff Remote I/O
CTAN286	Commander SK	Enhanced Local/Remote Control Using Logic Stick
CTAN340	Commander SK	Remote Control via Fieldbus/Local via Keypad
CTVI114 	Commander SK	Using Keypad Remote





Remote I/O

CTAN283	Unidrive SP/MP	Using Beckhoff Remote I/O
CTAN295	CTNet Options	Supported Beckhoff I/O Modules
CTSL013 	SyPT Lite	Extending the I/O Status Word – Remote I/O application

[Repairs](#)

[Repair Policies and Procedures](#)

Resetting Drive to Default State


CTVI119 	Commander SK	Returning the Drive to Factory Settings
CTVI120 	Unidrive SP,GP20, Affinity	Returning the Drive to Factory Settings
CTVI124 	Quantum III/Mentor II	Returning the Drive to Factory Settings
CTVI126 	Unidrive Classic	Setting Unidrive Classic to Factory Default

S Ramp Acceleration



CTAN120	All	S-Ramp Accel/Decel Ramps
CTAN121	Mentor II/Quantum III	Pseudo S-Ramp
CTAN293	Commander SK	Fan and Pump Application Setup

[Return to Top](#)



Security Codes

CTAN110	Mentor II/Quantum III	Mentor II / Quantum III Security
CTAN117	Unidrive	Unidrive Classic Security
CTAN151	Commander SE	Security Code
CTAN209	CTKP	Security Code & Set-Up
CTAN279	Commander SK	Commander SK Security
CTAN294	Unidrive SP/GP20	Parameter Security Details
CTAN322	Commander SL	Commander SL Security
CTAN366	Mentor/Quantum MP	Mentor/Quantum MP Security
CTVI123 	Quantum III/Mentor II	Setting Drive Security

Smart Card

CTAN352	SP, MP, Affinity, GP20	Backing Up Critical Drive Setup w/SmartCard
CTVI106 	Unidrive SP,GP20, Affinity	Saving drive data on SMARTCARD
CTVI107 	Unidrive SP,GP20, Affinity	Read drive data from SMARTCARD

Smart Stick

CTVI111 	Commander SK	Saving to SmartStick
CTVI112 	Commander SK	Setting Drive Data with SmartStick

SyPT


CTAN128	UD70/MD29	Copy Data in Arrays
CTAN171	MD29/UD70 and SyPT	Scale & Offset Function Blocks
CTAN328	Co Processors	Using SyPT Pro Demo as a Code Extraction Tool

[SyPT Lite](#)

[SyPT Lite App Notes](#)

[Return to Top](#)

Time Delays

CTAN122	MII/QIII/Unidrive/SE	Programmable Time Delays
CTAN167	Quantum III/ Mentor II	Timed Starting Current
CTAN198	Quantum III/ Mentor II	Creating an "About to Start" Warning
CTAN201	Unidrive Classic/SP, GP20, Quantum III, Mentor II	Creating a Pulsing Output for Blinking Light/Audible Alarm
CTAN218	Quantum III/ Mentor II	Starting Kick for Machine Breakaway
CTAN319	AC Drives	Squeezing a Bit More from your DB Resistor
CTAN332	SP,MP, SK, Affinity	Time of Day/Day of Week Applications
CTSL003 	Unidrive SP, Commander GP20 and Commander SK	Drive is inhibited from starting unless the speed reference is zero or near zero

Torque Control



CTAN181*	Unidrive	Torque Mode/Torque Follower
CTAN187	Commander SE	Simple Commander SE Torque Winder
CTAN190	Quantum III/ Mentor II	Tension Follower-Torque w/Spd Override
CTAN240	Focus 3	Speed Master w/ Torque Slave

[Training](#)

[Schedule](#)

[Course Descriptions](#)

Tuning

CTAN123	Mentor II/Quantum III	Current Loop Tuning (Manual/Scope method)
CTTN135	Quantum III/Mentor II	Current Loop AutoTuning
CTAN178	Unidrive Classic	Speed Loop Tuning
CTAN234	Unidrive SP	A Guide to Tuning the Unidrive SP
CTVI102 	Commander SK	Performing a Drive/Motor Autotune
CTVI110 	Unidrive SP,GP20, Affinity	Performing a Drive/Motor Autotune
CTAN350	Mentor MP	Quick Start-Up Guide
CTTN149	Unidrive Classic/SP	Quick Start-Up Guidance/ AutoTuning

[Unidrive Classic](#)

[Unidrive Classic Replacement](#)

[Warranty](#)

[Warranty Procedure](#)

Winding

CTAN187	Commander SE	Simple Commander SE Torque Winder
CTAN270	Unidrive SP	A Guide to Tuning the UnidriveSP – Winder Applications
CTAN299	Commander SK	Simple Commander SK Torque Winder
CTAN325	Unidrive SP/GP20/SK	Simple PID Dancer Unwind

[Return to Top](#)