

TEMOS APP Matrix
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App Name	Desc	Base	Demo	Design	Development	DEWETRON	DSA	Excel	Function Generator	High speed Video	IR Camera	Language	Math	Modul	Modbus	Network	Power	Reload	Remote	S.E.N.T.	Sound	Time	Tools	Video
Active channels	This App provides a brief overview list of all enabled channels. Only slot numbers and DAQP module information (name and settings) will be listed.																							X
App Manager	This App is a management tool for all running Apps.	X																						
Bar graph	This App displays a list of channels in a bar graph side by side. It is in particular useful to compare many channels of the same type.	X																						
Block statistic	This App calculates statistic values from time based data blocks.	X																						
Boolean	This App displays the measurement value boolean. The threshold can be configured.	X																						
Bridge balancing	This App performs the bridge balancing for Wheatstone bridge inputs. DEWETRON TRION-2402-dSTG-xxxDEWETRON TRIONx-xxxx-MULTI-xxx					X																		
Bridge tools	This App performs Bridge Short and Bridge Shunt on DEWETRON DAQP-STG and HSI-STG modules.					X																		
Calibrate	This App calibrates channels after input reference signals, such as RMS value (for a microphone to 94 dB or 114 dB) or mean values.	X																						
Channel selector	Use this App to assign channels to other Apps by drag and drop.	X																						
Channel setup table	Use this App to review or edit the channel list conveniently in a table.	X																						
Chart	This App displays the measurement values in a strip chart. The full waveform is displayed without downsampling, therefore it is recommended for statistical values or channels with low sample rate only.	X																						
Chart, advanced	This App displays the measurement values in a strip chart. Data are reduced aliasingfree to a meaningful rate, therefore this chart can be used for high sample rates also.	X																						
Chart, stacked	This App displays the measurement values in stacked strip charts. It is compatible with all channel types.	X																						
Clock	This App displays timing information such as elapsed time, PC time, current measurement value's timestamp or number of collected samples.																							X
Colorbox	This App displays the measurement value as color on a color or B&W scale.	X																						
Combi instrument	This App displays up to 32 channels as bars, meters, gauges or as numerical value. All properties of the cells can be set individual, incl. scaling.	X																						
Comment	Use this App to add text annotations to the screen.				X																			
Control panel	This App provides extra Start - Stop - Quit Buttons and allows the system and shut down or reboot.																							X
Correlation	This App calculates the auto and cross correlation, displays the correlation graph, finds the peak value and displays it along with time and magnitude.												X	X										
Countdown	This App causes a user interface event on the core program or any App upon the end of a countdown																						X	
CPU load	This App displays a chart of the load of the CPU cores.																							X
Cross spectrum	This App calculates the Cross Power Spectrum between two channels.						X																	

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DAQP setup	This is a configuration tool for DEWETRON DAQP and HSI Modules.					X																		
Data plugin file viewer	This App reloads any data file that is compatible with an existing data plugin.																	X					X	
Delay	This App creates copies of channels with a fixed delay in seconds												X	X										
Demo Signals	This App produces demo signals with an integrated function generator.		X																					
Differentiation	This App calculates the mathematical differentiation of channels.												X	X										
DEWETRON Info	This App provides detailed information about used DEWETRON TRION data acquisition hardware					X																		
Digital filter	This App applies an IIR or FIR filter to synchronous channels.												X	X										
Email	This App sends an email at a trigger condition.																						X	
EPAD	This App controls the DEWETRON EPAD modules. It configures ranges, channel scalings, reads measurement values and provide them as channels.					X																		
EPAD2-AO4	This App controls the DEWETRON EPAD-AO4 analogue output module.					X																		
Excel	This App transfers records measurement values directly into MS Excel							X																
Experimental modal analysis	This App performs experimental modal analysis (with excitation signal) based from FRF data and displays an animation of a geometrical shape.													X										
Explorer	This App is a mini file or web browser. Use it as user interface for data bases, sensors or other web based services.									X	X					X							X	
Fastcam	This App is to configure, control and get data from a Photron High speed camera									X														
FFT	This App displays the FFT spectrum of selected channels.	X																						
Formula	This App includes a formula editor for a variety of math operations. The results are available as additional channels.												X	X										
Framework Info	This App provides information about internal variables such as the channel list, DAQP scaling factors and TRION module properties.					X																		
FRF	This App computes the magnitude, phase, and coherence of the frequency response of the device under test [DUT].													X										
Function generator	This App is a function generator for the following modules: DEWETRON TRION-1628-AO-2/DEWETRON TRION-1628-AO-8/NI PXI-6733 and compatible								X															
IR Camera	This App collects an IR Image from the InfiRay A8 infrared camera										X													
Integration	This App calculates the mathematical Integration of channels.												X	X										
List	This App displays selected channels in a list dump.	X																						
Log	This App is a log book. It saves annotations to a log file in txt format.	X																						

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Message	This App produces a message pop up window.																							X
Metadata	This App allows the entry of meta data in a customizable form (customization does not require programming)	X																						
Modbus serial Master	This APP is a MODBUS Master on the serial interface. It can transmit and receive multiple register and coil channels.														X									
Modbus serial Slave	This APP is a MODBUS Slave on the serial interface. It can transmit and receive multiple register and coil channels.														X									
Modbus TCPIP Master	This APP is a MODBUS Master on the TCIP/IP interface. It can transmit and receive multiple register digital channels.														X									
Modbus TCPIP Slave	This APP is a MODBUS Slave on the TCP/IP interface. It can transmit and receive multiple register and digital channels.														X									
NTP	This App reads and displays the current time from an NTP (Network Time Protocol) server. It also can set the PC time from this reference.															X						X		
Nyquist plot	This App calculates the Nyquist plot between two channels.						X							X										
Octave	This App calculates and displays the octave analysis in accordance with the IEC 61260 standard																				X			
Operational modal analysis	This App performs operational modal analysis (without excitation signal) and displays an animation of a geometrical shape.													X										
Orion DO	This App sets digital outputs of DEWETRON Orion cards on button click (manually)					X																		
Overview	This App retains the max and min values and reports an over/underflow.	X																						
Oxygen Datastream	This App connects TEMOS to DEWETRON Oxygen via SCPI. It can control Oxygen and receive fast channels via Datastream.					X																		
Oxygen SCPI	This App connects TEMOS to DEWETRON Oxygen via SCPI. It can control Oxygen and receive aggregated values.					X																		
PAD-DO7	This App controls the DEWETRON PAD-DO7 digital output module.					X																		
PAD-DO7 Alarm	This App sets an alarm on the DEWETRON PAD-DO7 digital output module.					X																		
Power	This App calculates the Power parameters and RMS values of an electrical Power system based on blocks of number of cycles. (EN50160)																X							
Power, broadband	This App calculates the Power parameters and RMS values of an electrical Power system.																X							
Power, harmonics	This App performs the harmonic analysis of an electrical power system. It calculates the values for each phase and harmonic, the results will be available as channels in other Apps. (EN50160)																X							
PSD	This App computes the power spectrum of scaled signal [EU]. Use the power spectrum to quantify signal components as a function of frequency.						X																	
Ref chart	This App displays aggregated block values (RMS, AVG, Peak or Instant values) in a strip chart recorder along with references.	X																						

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App Name	Desc																									
Reload	This App reloads data files to review and replay. For easy comparison it can load multiple files simultaneously, regardless of their recording time or date, rate, channel configuration and file format. As part of the base package, it loads TDMS files only. As part of the Reload package it loads in addition also 3rd party file formats (through NI Dataplugins, as installed).	(X)																		X						
Remote control	Use this App to control remote instruments.																		X		X					
Remote control helper	This App helps to identify possible targets and GUI elements that can be controlled with LAN commands or the Soft Trigger App																	X		X			X	X		
Resampling	This App returns copies of selected channels with random sample rate.														X	X										
Rotated picture	This App displays the measurement value as angle of a rotated picture.	X																								
Schemes	This App saves and reloads distinct App configurations. It can switch through them like a slideshow.			X																						
Scope	This App displays the waveforms of signals in an oscilloscope.	X																								
SENT	This App decodes the binary S.E.N.T (Single Edge Nibble Transmission) and converts it into channels for other Apps.																					X				
Serial Terminal	This App is a tool for manual serial communication (write and read) on a PC COM Port.																								X	
Setup viewer	Use this App to view the content of setup files.																								X	
Sine swept Measurement	This App tracks the frequency of a reference signal and applies a narrow band filter on selected channels								X																	
Single Tone Measurement	Demonstrates the measurement of the frequency and amplitude of the input signal. Narrow the search to a particular frequency using the advanced search criteria.								X																	
Soft trigger	This app causes a user interface event in TEMOS or any app under a trigger condition derived from an available channel.																								X	
Sound input	This App provides two measurement channels from the soundcard.		X																							
Sound level meter	This App calculates the sound level parameters of selected channels. Results will be available as channels in other Apps.																						X			
Sound Power	This App calculates the total sound power level and the sound power levels per octave band.																						X			
Speaker output	This vi outputs a selected channel on the speaker.																						X			
SRS	This App computes the peak levels for each single-degree-of-freedom (SDOF) component to form the shock response spectrum (SRS) across the frequency range of one channel								X																	
Statistic	This App displays statistical values of selected channels in a table.	X																								
STFT	This App computes the signal energy distribution in the joint time-frequency domain, using the short-time Fourier transform (STFT) algorithm.								X																	
Still Image	This App displays a still image file. Once the image file is loaded it is not needed any more.			X																						
Storage capacity	This App returns the free capacity on storage media as channel value.																								X	

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System status	This App displays the current system status (Measuring, Recording) most simplistic as 3 status lights.																							X	
Tacho	This App calculates high resolution RPM from a counter input.												X												
TCPIP multicast receiver	This App receives a data stream that is sent from a TCPIP sender client. The received channels will be available as channels in other Apps.															X									
TCPIP multicast sender	This App sends selected channels to a TCP/IP port of the localhost. They then can be received by the TCPIP receiver client or any other tool that is able to collect and decode the data stream.															X									
TDMS viewer	This client reviews a single TDMS data file																							X	
TEMOS Info	This App provides information about TEMOS, internal variables such as the channel list and the used hardware.	X																							
Temp gradient	This App calculates the long term gradient of temperature channels												X												
Template_Async channels	This is a prototyping App that demonstrates how channels can be created and made available to other Apps. Inputs: noneOutputs: 2 asynchronous channels (noise and increasing number)				X																				
Template_blank	This is a prototyping App without any data transfer. Enter your own LabVIEW™ code here.				X																				
Template_gapfree	This is a prototyping App to receive gapfree data streams from the Core or other Apps. Enter your own LabVIEW code here.				X																				
Template_slider	This is a prototyping App that demonstrates how channels can be created and made available to other Apps. Inputs: noneOutputs: 2 asynchronous channels (slider values, updated as and when moved)				X																				
Template_Subpanel	This is a prototyping App that executes any existing Labview™ vi in a subpanel.				X																				
Template_Sync channels	This is a prototyping App that demonstrates how channels can be created and made available to other Apps. Inputs: noneOutputs: one function generator signal will be sent as 5 equal synchronous channels.				X																				
Template_Sync to Async channels	This is a prototyping App that demonstrates how channels can be created and made available to other Apps. Inputs: one synchronous channel Outputs: one asynchronous channel (the duty cycle)				X																				
Template_Sync to Sync channels	This is a prototyping App that demonstrates how channels can be created and made available to other Apps. Inputs: one or more synchronous channelsOutputs: one output chanenls (the sum of the selected channels)				X																				
THD	This App calculates the total harmonic distortion (THD) of channels.						X										X					X			
Translator	This App is a tool to create and translate language files.											X													
Trigger, Orion	This App sets digital outputs of DEWETRON Orion cards on a trigger level (automatically)					X																			
TRION API	This App allows direct communication with the DEWETRON TRION modules. Use with care!!!					X																			
TRION autorange	This App sets the optimal input range for DEWETRON TRION AI channels					X																			
TRION DO	This App sets the digital output lines of DEWETRON TRION modules.					X																			
TRION Self test	This App performs a self test on the DEWETRON TRION modules					X																			
TRION Trigger	This App creates an output pulse on a digital output of DEWETRON TRION module upon a trigger condition.					X																			

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TRION UART Terminal	This App is a tool for manual serial communication (write and read) on DEWETRON TRION Modules with UART Interface					X																		
User Accounts	This App manages user accounts and allows users to log on and off.																						X	
Vector Scope	This App displays up to 3 voltages and currents in a vector diagram. The lengths of the vectors are in relation to the highest voltage or currents, respectively. (EN50160)																X							
Video	This App displays the image of a video and records it to an AVI file.																							X
Video playback	This App replays a video file. The current position can be synchronized with other clients such as additional Video Playback Apps or the File reload App.								X															X
WOL	This App sends the WOL (wake on LAN) command to specified computers.															X		X						
Write data plugin file	This App writes selected channels to a range of file format, using the NI DataPlugins.	X																						
Write TDMS file	This App writes measurement values to a data file in TDMS file format.	X																						
Write wav file	This App writes up to 2 channels to a sound file in wav file format. The file can be replayed by any media player.																				X			
XY Chart	This App displays multiple channels as XY Chart.	X																						
XY Scope	This App displays multiple channels as XY scope.	X																						
Zero	This App sets selected channels to Zero by adjusting the scaling.	X																						