

TEK DSA 600
SERIES

070-8183-00
Product Group 47

**THE
& DSA 601A
DSA 602A**
DIGITIZING SIGNAL
ANALYZERS

**Quick
Reference**

*Please check for CHANGE INFORMATION
at the rear of this manual.*

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COMMITTED TO EXCELLENCE

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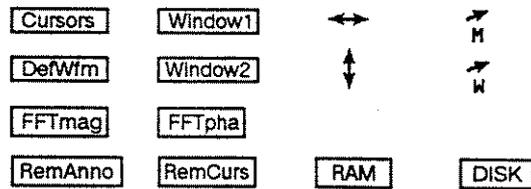
Task Reference

This section of the Quick Reference lists common tasks you can perform using the DSA 601A and DSA 602A Digitizing Signal Analyzers, and the steps to take to execute each task. Tasks are sorted into groups.

Key to symbols used in this reference:

-  a button on the front panel
-  a selection from the major menu area
-  a selection from a pop-up menu
-  an adjustment performed using the knobs

Icons that appear on the display:



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Basics

Clearing All Settings

 UTILITY,  Initialize,  Initialize

Checking the ROM Version

  UTILITY,  Ident, *Read firmware versions in the pop-up menu under ROM.*

Engaging Enhanced Accuracy

  ENHANCED ACCURACY

Initializing the Scope

 UTILITY,  Initialize,  Initialize

Removing Pop-Up Menus

Touch anywhere in graticule outside pop-up menu. Alternate:  touch highlighted selector that displayed pop-up. Alternate:  press any menu button

Setting the Time and Date

 UTILITY,  Time & Date,  select item to change,  adjust using knobs

Turning On the Scope

*Set rear panel Principal Power Switch to ON,
Set  Standby to ON*

Acquiring Waveforms

Acquiring with Autoset

AUTOSSET button. Alternate: Probe ID button, if set

Undoing an Autoset

UTILITY, Modes, Undo Last Autoset

Setting the Autoset Mode

UTILITY, Modes, Vertical (for Pk-Pk, TTL, ECL, or Off) or Horizontal (for Period, Pulse, Edge, or Off).

Applying Math Functions to a Waveform

WAVEFORM, Vertical Desc, as needed then Enter Desc

Creating a New Waveform

DefWfm and as needed (all waveforms). Alternate: Input channel (single-channel waveforms only)

Setting Record Length

WAVEFORM, Horizontal Desc, Main Record Length or Window Record Length, Left knob for main time base record length or Right knob for window

Repetitive Single-Shot

Starting Repetitive Acquisition

WAVEFORM, Acquire Desc, Rep Trig Complete, DIGITIZER

Setting the Number of Acquisitions

WAVEFORM, Acquire Desc, Set Rep Trigger N, either knob

Displaying Waveforms

Creating a Waveform

Defining a Single-Channel Waveform

 *Input channel*

Defining a Complex Waveform

 and  as needed (all waveforms)

Changing Vertical Controls

Volts/Div (Vertical Size)

Select waveform, , 

Vertical Position (Offset)

Select waveform, , 

Changing Horizontal Controls

Horizontal Position (Main Position)

Select waveform, , 

Time/Div (Main Size)

Select waveform, , 

Using Pan and Zoom

Select waveform, ,  Pan/Zoom to On,
 Left knob for magnification,  Right knob for
position

Changing Trigger Settings

Trigger Coupling

 TRIGGER,  Trigger Select (Main or Win-
dow) then Coupling,  select coupling
method

Trigger Level

\overrightarrow{H} or \overleftarrow{H} , \odot Left knob. Alternate: TRIGGER,
 Level, \odot Left knob

Trigger Holdoff

\overrightarrow{H} or \overleftarrow{H} , \odot Right knob. Alternate: TRIGGER,
 Time Holdoff, \odot Right knob

Trigger Source

TRIGGER, Trigger Select (Main or Win-
dow) then Source Desc, type description
then Enter Desc

Trigger Slope

TRIGGER, Trigger Select (Main or Win-
dow) then Slope

Window Operations

Creating a Window

Select source waveform, or

Removing a Window

Select window waveform to delete, Rem
Wfm #, Remove Wfm #

Removing a Waveform

Select waveform to delete, Rem Wfm #,
 Remove Wfm #

FFT Displays

Defining an FFT

DeWfm, Waveform Functions, Page ↓, FFTmag(or FFTphase(, select the channel,) then Enter Desc. Alternate: Select the desired waveform, then FFTmag

Frequency Span/div

↔, © Left knob

Frequency Resolution

↔, © Right knob

FFT Magnitude Format (Scaling)

WAVEFORM, FFT Control, select format

FFT Window

WAVEFORM, FFT Control, select windowing function

FFT Measurements

Spectral Magnitude

MEASURE, Measurements, Spectral Mag

Spectral Frequency

MEASURE, Measurements, Spectral Freq

THD

MEASURE, Measurements, THD

Changing the Display

Display Colors

UTILITY, Color, select color to be set from top of pop-up, then use Hue, Lightness, and Saturation with knobs. Select next color and continue. Previous Colors resets all colors to what they were when the pop-up was first displayed.

Assigning Colors to Waveforms

Select waveform, UTILITY, Color, Selected Wfm Color repeatedly until set to desired color. Window waveforms cannot be re-assigned

Resetting Colors

UTILITY, Color, Default Color

Display Intensity (overall)

UTILITY, Color, Display Intensity, either knob

Graticules

Creating a Second Graticule

WAVEFORM, Graticules, Create Second Graticule

Moving Waveforms Between Graticules

Select waveform, WAVEFORM, Lower Graticule or Upper Graticule, Move Waveform to Other Graticule

Removing the Second Graticule

WAVEFORM, Lower Graticule or Upper Graticule, Reduce to Single Graticule

Changing Persistence Mode

WAVEFORM, Horizontal Desc, Normal, Infinite, or Variable

Changing Persistence Time

WAVEFORM, Horizontal Desc, Persist Time, Either knob

Clearing Waveforms

Select waveform, Rem Wfm #, Clear Wfm #

Labeling Waveforms and Settings

Creating a Label

UTILITY, Label, select entity to display (first Displayed Waveforms, Stored Waveforms, or Stored Settings, then the entity from the list below), then type label (from key list of Upper Case, Lower Case, Numbers, Graphics, Greek, or Other). Back Space to correct errors or Erase to delete text. Touch Display to display label. Exit

Changing or Deleting the Label

UTILITY, Label, select entity to change or delete (first Displayed Waveforms, Stored Waveforms, or Stored Settings, then the entity from the list below), then type label (from key list of Upper Case, Lower Case, Numbers, Graphics, Greek, , or Other). Back Space to correct errors or Erase to delete text. Exit

Positioning the Label

Select waveform, UTILITY, Label Displayed Waveforms then Position, to move

Storing Waveforms and Settings

Waveforms

STORE/RECALL, Store Waveform, RAM or DISK, select waveform or Store All

Settings

STORE/RECALL, Store Setting, RAM or DISK, select associated menu at bottom of pop-up menu, then Set Next FPS and either knob, then Store Next FPS

Recalling Waveforms and Settings

Waveforms

STORE/RECALL, Recall Waveform, RAM or DISK, select waveform

Stored Waveform Scan

STORE/RECALL, Scan/Stopped (use other to set scan parameters)

Settings

STORE/RECALL, Recall Setting, RAM or DISK, select setting

Measurement Functions

Taking Measurements

 MEASURE,  Measurements,  select measurement

Adjusting Measurement Limits

 MEASURE,  select measurement from major menu,  select parameters and  adjust as necessary.

Adjusting Default Limits

  MEASURE,  Compare & Defaults,  Default Parameters,  select parameters and  adjust as necessary.

Using Histograms

Turning Histograms On/Off

  MEASURE,  Histograms,  Vertical Histogram or Horizontal Histogram

Changing the Size of the Histogram Box

  MEASURE,  Histograms,  Vertical Limits or Horizontal Limits,  Left or right knob as needed

Changing Histogram Scaling

  MEASURE,  Histograms,  Histogram Scaling

Limiting Acquisitions

  MEASURE,  Histograms,  Set N Waveform or Set N Samples,  Adjust either knob,  Stop N Waveform or Stop N Samples

Making a Hardcopy

Setting Hardcopy Parameters

UTILITY, Hardcopy, as necessary

Interfacing

See also *Setting GPIB Parameters, Setting RS-232-C Parameters*

Hardcopy to Disk

UTILITY, Hardcopy, Output Port to Disk; UTILITY, File Ops, File Type to hardcopy

Initiating a Hardcopy

HARDCOPY

Aborting a Hardcopy

UTILITY, Hardcopy, Hardcopy Abort

Setting GPIB Parameters

Mode

UTILITY, GPIB, Mode as necessary

Address

UTILITY, GPIB, Address to desired address

Terminator

UTILITY, GPIB, Terminator as necessary

Debug

UTILITY, GPIB, Debug as necessary

Setting RS-232-C Parameters

Baud Rate

  UTILITY,  RS-232-C,  Right knob

Echo

  UTILITY,  RS-232-C,  Echo, as necessary

Stop Bits

  UTILITY,  RS-232-C,  Stop Bits, as necessary

Parity

  UTILITY,  RS-232-C,  Parity, as necessary

Flagging

  UTILITY,  RS-232-C,  Flagging, as necessary

Delay

  UTILITY,  RS-232-C,  Delay,  Left knob

EOL String

  UTILITY,  RS-232-C,  EOL String, as necessary

Verbose Mode

  UTILITY,  RS-232-C,  Verbose

Debug Mode

  UTILITY,  RS-232-C,  Debug

Disk Drive Operations

Formatting a Disk

   UTILITY,  Disk Ops,  format, A:, Enter

Checking a Disk

   UTILITY,  Disk Ops,  chkdsk, A:, Enter

Labeling a Disk

   UTILITY,  Disk Ops,  label, A:,
Use keypad to type in label, Enter

File Copy

   UTILITY,  File Ops,  copy, *use keypad to enter existing file pathname, Space, use keypad to enter new file pathname.*

Create a Directory

   UTILITY,  Directory Ops,  mkdir, *use keypad to enter directory name.*

Remove a Directory

   UTILITY,  Directory Ops,  rmdir, *use keypad to enter directory name.*

Change Directory

   UTILITY,  Directory Ops,  chdir, *use keypad to enter pathname of directory.*

Using Diagnostics

Self-Test Diagnostics

  UTILITY,  Self Test

Extended Diagnostics

  UTILITY,  Extended Diagnostic,
 Extended Diagnostic *then run desired tests,*
then Exit

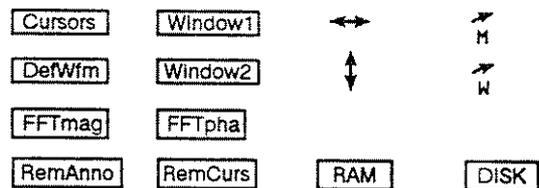
Command Reference

This section of the quick reference lists the functions you can perform using the DSA 601A and DSA 602A Digitizing Signal Analyzers, and the steps to take to execute each function. Functions are listed in alphabetical order.

Key to symbols used in this reference:

-  a button on the front panel
-  a selection from the major menu area
-  a selection from a pop-up menu
-  an adjustment performed using the knobs

Icons that appear on the display:



A to B, intensified zone
see *Window*

Abort Hardcopy

UTILITY, Hardcopy, Hardcopy
Abort

AC Coupling, trigger

TRIGGER, Trigger Select (Main or Win-
dow) then Coupling, AC

AC Coupling, vertical channel

WAVEFORM, Input Parameters, select
channel then AC

Acquiring Time Base Main or Window

WAVEFORM, observe Horizontal Desc
status area

Acquisition, on/off

DIGITIZER Run/Armed / Stop

Act on Delta, set parameters

WAVEFORM, Act on Delta, define
delta description and select delta actions
See also *Autostore Parameters*

Act on Delta, start acquisition

WAVEFORM, Acquire Desc, Delta,
 DIGITIZER

Add Waveform

DefWfm and as needed (all waveforms), then
Enter Desc. Alternate: Input channel (single-
channel waveforms only)

Address, GPIB

UTILITY, GPIB, Address

Annotation, Measurement

MEASURE, selector displaying mea-
surement value

Annotation, Measurement – removing

RemAnno

Area, measurements

MEASURE, Measurements, Area +
or Area-

Audio Feedback, on/off

UTILITY, Modes, Audio Feedback

Auto Level Trigger Mode

TRIGGER, Trigger Select (Main or Win-
dow) then Mode, Auto Level

Auto Trigger Mode

TRIGGER, Trigger Select (Main or Win-
dow) then Mode, Auto

Autoset

AUTOSSET button. Alternate: Probe ID but-
ton, if set

Autoset, set probe ID button

UTILITY, Probes, Select /New & Auto-
set

Autoset, undo

UTILITY, Modes, Undo Last Autoset

Autoset Options, configuring

UTILITY, Modes, Vertical and Hori-
zontal

Autostore Parameters, setting

WAVEFORM, Acquire Desc, Page To
Autostore Parameters Menu, as needed

Average, on/off

WAVEFORM, Acquire Desc,
 Average N

Average, set N

WAVEFORM, Acquire Desc, Set
AvgN, Left knob

Averaging Type

UTILITY, Modes, Averaging Type

Axis

see Graticule

B Sweep*see Window***Bandwidth Limit** WAVEFORM, Input Parameters, select channel then select limit**Baseline**, default measurement parameter MEASURE, Compare & Defaults, Default Parameters then Baseline then Right knob**Baud Rate**, RS-232-C UTILITY, RS-232-C, Baud Rate, Right knob**Beeping**, on/off UTILITY, Modes, Audio Feedback**Brightness***see Intensity***Calculations**, waveform WAVEFORM, Vertical Desc, as needed then Enter Desc**Calibrate** (internal), oscilloscope ENHANCED ACCURACY**Calibrate**, probes UTILITY, Probes, connect probe or input to calibrator and select channel**Calibrator**, set frequency, amplitude, impedance UTILITY Calibrator, and as needed**Channel Select** Input channel. Alternate: DeWfm, as needed**Clear**, delete displayed or stored waveform STORE/RECALL, Delete Waveform, select individual waveform(s) or All Waveforms, Delete Selected Waveforms**Clear**, waveform data points*Select waveform*, Rem Wfm #, Clear Wfm #

Coarse, knob resolution

 Knob label,  Coarse. Alternate:  Fine until Fine label is not lighted.

Coarse Dots Mode, cursors

 Cursors,  Cursor Type,  Coarse Dots Mode

Color, change waveform assignment

Select waveform,  UTILITY,  Color,  Selected Wfm Color repeatedly until set to desired color. Window waveforms cannot be re-assigned

Color, default all

 UTILITY,  Color,  Default Color

Color, default one

 UTILITY,  Color,  select color to be reset from top of pop-up, then Default Color

Color, set one or more

 UTILITY,  Color,  select color to be set from top of pop-up, then use Hue, Lightness, and Saturation with  knobs. Select next color and continue. Previous Colors resets all colors to what they were when the pop-up was first displayed.

Communication parameters

  UTILITY,  RS-232-C or GPIB,  as needed

Compare, measurement on/off

  MEASURE,  Compare & Defaults,  Compare Options then Compare (on/off)

Compare, set measurement reference value

  MEASURE,  Compare & Defaults,  Compare Options then Save Current Meas Values as References or adjust by touching a measurement reference selector in "Adjust References" section, use  either knob

Compensation, probe

 UTILITY,  Probes, connect probe or input to calibrator and  select channel

Conditional Acquisition

WAVEFORM, Acquire Desc, %Fill Complete or Single Trigger or Single Sequence or Rep Trig Complete or Delta or Continuous or Average Complete or Envelope Complete or Both Avg & Env

Contrast, overall

UTILITY, Color, Display Intensity,
 either knob

Copy

see Hardcopy

Coupling, trigger

TRIGGER, Trigger Select (Main or Window) then Coupling, as needed

Coupling, vertical channel

WAVEFORM, Input Parameters, select channel then select coupling

Create New Waveform

DefWfm and as needed (all waveforms). Alternate: Input channel (single-channel waveforms only)

Cross, measurement

MEASURE, Measurements, Cross

Cursors, across two waveforms

Select first waveform, Cursors, Cursor Type, Split Dots then selector for second waveform

Cursors, auto measurement area

see Annotation, measurement

Cursors, coarse dots mode

Cursors, Cursor Type, Coarse Dots Mode

Cursors, default type

UTILITY, Modes, Default Cursor

Cursors, hold mode

UTILITY, Modes, Cursor Hold

Cursors, setting type

Select waveform, **Cursors**, Cursor Type,
 select type

Cursors, turning off

RemCurs. Alternate: Page to Previous Menu.
Alternate: WAVEFORM

Cursors, turning on

Select waveform, **Cursors**

Data Interval, default measurement parameter

MEASURE, Compare & Defaults,
 Default Parameters *then* Data Interval

Date, set

UTILITY, Time & Date, select item to
change, knob

DC Coupling, trigger

TRIGGER, Trigger Select (Main or Win-
dow) *then* Coupling, DC

DC Coupling, vertical channel

WAVEFORM, Input Paramters, select
channel *then* DC

Debug Mode, programming

UTILITY, RS-232-C or GPIB, De-
bug

Default, measurement parameter

MEASURE, Compare & Defaults,
 Default Parameters *then* select parameter,
 knob

Define, new waveform

DefWfm and as needed (all waveforms). Al-
ternate: Input channel (single-channel
waveforms only)

Delay by Events or Time

see Holdoff

Delay, RS-232-C

UTILITY, RS-232-C, Delay,
 Left knob

Delay, timing measurement

MEASURE, Measurements, Delay

Delayed Sweep

see Window

Delete, displayed or stored waveform

STORE/RECALL, Delete Waveform,
 select individual waveform(s) or All Wave-
forms, Delete Selected Waveforms

Delete, displayed waveform

Select waveform to delete, Rem Wfm #,
 Remove Wfm #

Delete, stored setting

STORE/RECALL, RAM or DISK, De-
lete Setting, select individual settings or All
Settings, Delete Selected Settings

Delta Description, set

WAVEFORM, Act on Delta, *select*
from Delta Description portion of menu

Deskew, probe

UTILITY, Probes, *connect probe or input*
to calibrator and select channel

Diagnostics, extended

UTILITY, Extended Diagnostic,
 Extended Diagnostic then run desired tests
then Exit

Diagnostics, self test

UTILITY, Self Test

Disk Drive, check floppy disk

UTILITY, Disk Ops, chkdsk, A:,
Enter

Disk Drive, copy file

UTILITY, File Ops, *copy type*
existing file name, Space, new file name, then
Enter

Disk Drive, create directory

UTILITY, Directory Ops, mkdir,
type directory name then Enter

Disk Drive, delete file

   UTILITY,  File Ops,  delete type
file name then Enter

Disk Drive, filename prefix

   UTILITY,  File Ops,  prefix type
prefix then Enter

Disk Drive, file type

   UTILITY,  File Ops,  File Type

Disk Drive, file data format

   UTILITY,  File Ops,  File Data
Format

Disk Drive, format floppy disk

   UTILITY,  Disk Ops,  format, A:,
Enter

Disk Drive, label floppy disk

   UTILITY,  Disk Ops,  label, A:,
type label then Enter

Disk Drive, list directory

   UTILITY,  Directory Ops,  dir,
Enter. Alternate:    UTILITY,  Directory
Ops,  File List

Disk Drive, read/write permissions

   UTILITY,  File Ops,  attrib, type
path name for file then Enter

Disk Drive, remove directory

   UTILITY,  Directory Ops,  rmdir,
type existing directory name, Enter

Disk Drive, rename directory

   UTILITY,  Directory Ops,  renmdir,
type existing directory name, Space, new direc-
tory name, then Enter

Disk Drive, rename file

   UTILITY,  File Ops,  rename type
existing file name, Space, new file name, then
Enter

Command Reference

Display Intensity, adjustment

UTILITY, Color, Display Intensity,
 either knob

Display Mode, vector on/off

UTILITY, Modes, Vectored Wave-
forms

Distal, default measurement parameter

MEASURE, Compare & Defaults, De-
fault Parameters *then* Distal *then* Left knob

Dot Cursors

Select waveform, Cursors, Cursor Type,
 Paired Dots

Echo, RS-232-C

UTILITY, RS-232-C, Echo

ECL, Autoset mode

UTILITY, Modes, Vertical

Edge, Autoset mode

UTILITY, Modes, Horizontal

Energy, measurement

MEASURE, Measurements, Energy

Enhanced Accuracy, set auto or manual

UTILITY, Modes, Enhanced Accura-
cy Mode

Enhanced Accuracy, execute

ENHANCED ACCURACY

Envelope, on/off

WAVEFORM, Acquire Desc, Enve-
lope N

Envelope, set N

WAVEFORM, Acquire Desc, Set
EnvN, Right knob

EOL String, RS-232-C

UTILITY, RS-232-C, EOL String

Events, delay window trigger by
see *Holdoff*

Extended Diagnostics

UTILITY, Extended Diagnostic,
 Extended Diagnostic *then run desired tests then Exit*

Fall Time, timing measurement

MEASURE, Measurements, Fall

Fast (definition)

Integer waveform computations. See Forced to force High Prec floating-point computations.

FFT, magnitude display

DefWfm, Waveform Functions, FFTmag(, *select channel*), Enter Desc. *Alternate: Select waveform, FFTmag*

FFT, magnitude format (scaling)

WAVEFORM, FFT Control, *select format*

FFT, phase display

DefWfm, Waveform Functions, FFTphase(, *select channel*), Enter Desc. *Alternate: Select waveform, FFTmag, FFTpha*

FFT, window

WAVEFORM, FFT Control, *select window type*

Filter, digitizer

WAVEFORM, Input Parameters, 100 MHz (*under Digitizer Filter label*)

Filter, function

DefWfm, Waveform Functions, Filter(, *enter waveform description then*), Enter Desc

Filter, trigger coupling

TRIGGER, Trigger Select (Main or Window) *then Coupling*, *select desired coupling*

Fine, knob resolution

FINE. *Alternate: Knob label, Fine*

Flagging, RS-232-C

UTILITY, RS-232-C, Flagging

Forced, high-precision waveform scaling

UTILITY, Modes, Waveform Scaling to Forced (*all new waveforms will be High Prec*). See *High Prec*

Frequency, timing measurement

MEASURE, Measurements, Frequency

Front-Panel Setting

see Setting

Functions, waveform

WAVEFORM, Vertical Desc, *as needed then Enter Desc*

Gain, amplitude measurement

MEASURE, Measurements, Gain

GPIB Parameters

UTILITY, GPIB, *as needed*

Graticule, create second

WAVEFORM, Graticules, Create Second Graticule

Hardcopy, abort

UTILITY, Hardcopy, Hardcopy Abort

Hardcopy, make

HARDCOPY

Hardcopy, set mode

UTILITY, Hardcopy, *as necessary*

High Pass Filter, trigger coupling

TRIGGER, Trigger Select (Main or Window) *then Coupling*, *select coupling*

High Prec (definition)

Floating-point waveform computations. All waveforms using multiplication, division, or certain functions will always be High Prec. Other waveforms can be High Prec — see Forced

Histograms, adjusting limits

  MEASURE,  Histograms,  Vertical Limits or Horizontal Limits,  either knob as appropriate

Histograms, on/off

  MEASURE,  Histograms,  Vertical Histogram or Horizontal Histogram

Holdoff, main trigger, adjusting

Horizontal Size

Select waveform, \leftrightarrow , \odot Left knob

Impedance, Signal

\odot WAVEFORM, \equiv Input Parameters, \equiv select channel then select impedance

Infinite Persistence, on/off

\odot WAVEFORM, \equiv Horizontal Desc, \equiv Infinite

Initialize, all default measurement parameters

\odot MEASURE, \equiv Compare & Defaults, \equiv Default Parameters, then Initialize Defaults

Initialize oscilloscope

\odot UTILITY, \equiv Initialize, \equiv Initialize

Intensified Zone

see Window

Intensity, overall display

\odot UTILITY, \equiv Color, \equiv Display Intensity, \odot either knob

Interpolation, pan/zoom – set type

\odot UTILITY, \equiv Modes, \equiv Zoom Intp

Inverted Waveform

DerWfm , \equiv -, then source description then Enter Desc

Keypad, numeric

\equiv Knob label, \equiv enter number, magnitude (m for milli, etc.) then Enter

Knob Resolution

\odot FINE. Alternate: \equiv Knob label, \equiv Coarse or Medium or Fine

Label, define and display

\odot UTILITY, \equiv Label, \equiv select entity to display (first Displayed Waveforms, Stored Waveforms, or Stored Settings, then the entity from the list below), then type label (from key list of Upper Case, Lower Case, Numbers, Graphic, Greek, or Other). Back Space to correct errors or Erase to delete, then Display, Exit

Label, change or delete

UTILITY, Label, select entity to change or delete (first Displayed Waveforms, Stored Waveforms, or Stored Settings, then the entity from the list below), then type label (from key list of Upper Case, Lower Case, Numbers, Graphics, Greek, or Other). Back Space to correct errors or Erase to delete text. Exit

Label, move

Select waveform, UTILITY, Label Displayed Waveforms then Position, to move

Label, on/off

UTILITY, Label Displayed Waveforms then Display, then Exit

Label, stored waveform time/date format

UTILITY, Modes, Stored Wfm Time Fmt (shows time/date stamp on menu selectors for stored waveforms with date or with hundredths of seconds)

Left Limit, default measurement parameter

MEASURE, Compare & Defaults, Default Parameters then Left Limit, Left knob

Level, trigger

or , Left knob. Alternate: TRIGGER, Level, Left knob

Level Mode, default measurement parameter

MEASURE, Compare & Defaults, Default Parameters then Level Mode

Line Trigger

TRIGGER, Trigger Select (Main or Window) then Source Desc, Line, Enter Desc

Low Pass Filter, trigger coupling

TRIGGER, Trigger Select (Main or Window) then Coupling, select coupling

Main Position

Select waveform, , Right knob

Main Size

Select waveform, \leftrightarrow , \odot Left knob

Main→Win Trigger, timing measurement

\square MEASURE, \equiv Measurements,
 \square Main→Win Trig Time

Main, record length

\square WAVEFORM, \equiv Horizontal Desc, \square Main
 Record Length, \odot Left knob

Max, amplitude measurement

\square MEASURE, \equiv Measurements, \square Max

Mean, amplitude measurement

\square MEASURE, \equiv Measurements, \square Mean

Measurement, to remove all

\square MEASURE, \equiv Measurements, \square Delete
 All

Measurement, to select

\square MEASURE, \equiv Measurements, \square select
 up to six

Measurement Compare, on/off

\square \square MEASURE, \equiv Compare & Defaults,
 \square Compare Options *then* Compare (on/off)

Measurement Compare, set compare value

\square \square MEASURE, \equiv Compare & Defaults,
 \square Compare Options *then* Save Current Meas
 Values as References *or adjust by touching a
 measurement reference selector in "Adjust Ref-
 erences" section, use \odot either knob*

Measurement Statistics, on/off

\square \square MEASURE, \equiv Statistics, \square Live Wfm
 Statistics or Stored Wfm Statistics, \square Statistics
*Note: Main→Win Trig Time measurement has
 its own statistics control: \equiv Main→Win Trig
 Time, \square "Statistics" section*

Measurement Statistics, restart logging

\square \square MEASURE, \equiv Statistics, \square Reset

Measurement Statistics, set N

  MEASURE,  Statistics,  Statistics N,  either knob

Medium, knob resolution

 Knob label,  Medium

Memory Wrap, set autostore parameter

 WAVEFORM,  Acquire Desc,  Page To Autostore Parameters Menu,  Wraparound

Menu, remove pop-up

Touch anywhere in graticule outside pop-up menu. Alternate:  touch highlighted selector that displayed pop-up. Alternate:  press any menu button

Mesial, default measurement parameter

 MEASURE,  Stats Comp Test & Def,  Default Parameters then Mesial,  Left knob

Mid, amplitude measurement

 MEASURE,  Measurements,  Mid

Min, amplitude measurement

 MEASURE,  Measurements,  Min

Mode, GPIB

  UTILITY,  GPIB,  Mode

Move Waveform to Other Graticule

Select waveform to move,  WAVEFORM,  Upper Graticule or Lower Graticule,  Move Waveform to Other Graticule

New Waveform

 DeWfm and  as needed (all waveforms). Alternate:  Input channel (single-channel waveforms only)

Noise Filter, trigger coupling

 TRIGGER,  Trigger Select (Main or Window) then Coupling,  select coupling

Normal Trigger Mode

 TRIGGER,  Trigger Select (Main or Window) then Mode,  Normal

Numeric Keypad

 Knob label,  enter number, magnitude (m for milli, etc.) then Enter

Offset, vertical position

Select waveform, ,  Right knob

Optional, fast or high-precision waveform scaling

 UTILITY,  Modes,  Waveform Scaling to Optional (new waveforms will be Fast or High Prec depending on calculations invoked.)

Overshoot, amplitude measurement

 MEASURE,  Measurements,  Over-Shoot

Pan and Zoom, set interpolation type

 UTILITY,  Modes,  Zoom Intp

Pan and Zoom, multiple waveforms

 UTILITY,  Modes,  Multitrace Pan/Zoom, then use Pan/Zoom as with single waveforms

Pan and Zoom, set pivot (center of magnification)

 UTILITY,  Modes,  Pan/Zoom Pivot

Pan and Zoom, using

Select waveform, ,  Pan/Zoom to On,  Left knob for magnification,  Right knob for position

Parity, RS-232-C

  UTILITY,  RS-232-C,  Parity

Peak to Peak, amplitude measurement

 MEASURE,  Measurements,  Peak-Peak

Peak to Peak, Pk-Pk Autoset mode

 UTILITY,  Modes,  Vertical

Period, Autoset mode

 UTILITY,  Modes,  Horizontal

Period, timing measurement

 MEASURE,  Measurements,  Period

Persistence Mode, on/off

WAVEFORM, Horizontal Desc, Infinite or Variable to turn on or Normal to turn off.

Phase, timing measurement

MEASURE, Measurements, Phase

Pop-Up Menu, remove

Touch anywhere in graticule outside pop-up menu. Alternate: touch highlighted selector that displayed pop-up. Alternate: press any menu button

Position, horizontal

Select waveform, , Right knob

Position, vertical (offset)

Select waveform, , Right knob

Pre-Trigger View

Select waveform, , Right knob

Probe ID Button, set function

UTILITY, Probes, Wfm Select / New Wfm or Select / New & Autoset or Sequence Settings or Store Waveforms

Probes, calibrate (deskew, compensate)

UTILITY, Probes, *connect probe or input to calibrator and select channel*

Propagation Delay, timing measurement

MEASURE, Measurements, PropDelay, PropDelay, select delayed waveform from top of menu

Proximal, default measurement parameter

MEASURE, Compare & Defaults, Default Parameters then Proximal then Right knob

Pulse, Autoset mode

UTILITY, Modes, Horizontal

Pulse Width, timing measurement

MEASURE, Measurements, Width

Recall, stored setting

STORE/RECALL, Recall Setting, RAM
or DISK, select setting

Recall, stored waveform

STORE/RECALL, Recall Wave-
form, RAM or DISK, select waveform

Record Length, main

WAVEFORM, Horizontal Desc, Main
Record Length, Left knob

Record Length, window

WAVEFORM, Horizontal Desc, Win-
dow Record Length, Right knob

Reference Level, default measurement parameter

MEASURE, Compare & Defaults,
 Default Parameters then Reference Level
then either knob

Reference Value, for measurement compare

MEASURE, Compare & Defaults,
 Compare Options then Save Current Meas
Values as References or adjust by touching a
measurement reference selector in "Adjust Ref-
erences" section, use either knob

Remove Waveform

Select waveform to delete, Rem Wfm #,
 Remove Wfm #

Remove Window

Select window waveform to delete, Rem
Wfm #, Remove Wfm #

Remove, pop-up menu

Touch anywhere in graticule outside pop-up
menu. Alternate: touch highlighted selector
that displayed pop-up. Alternate: press any
menu button

Repetitive Single Trigger, set parameters

WAVEFORM, Acquire Desc, Trigger
Select Main or Trigger Select Window, Set Rep
Trigger N and either knob; Page To Auto-
store Parameters Menu and as needed

Repetitive Single Trigger, start acquisition

 WAVEFORM,  Acquire Desc,  Rep Trig Complete,  DIGITIZER

Reset Oscilloscope

 UTILITY,  Initialize,  Initialize

Reset, all default measurement parameters

  MEASURE,  Compare & Defaults,  Default Parameters *then* Initialize Defaults

Reset, waveform measurement parameters to defaults

Select waveform,   MEASURE,  Compare & Defaults,  Default Parameters *then* Copy Defaults to Sel Wfm

Right Limit, default measurement parameter

  MEASURE,  Compare & Defaults,  Default Parameters *then* Right Limit,  Right knob

Rise Time, timing measurement

 MEASURE,  Measurements,  Rise

RMS, amplitude measurement

 MEASURE,  Measurements,  RMS

RS-232-C Parameters

  UTILITY,  RS-232-C,  *as needed*

Runs After Delay

 TRIGGER,  Trigger Select (Window),  Source Desc,  Window Triggered From Main

Sample Interval, display

 WAVEFORM,  Horizontal Desc,  *read out at top of pop-up menu*

Save Current Measurement Values as Compare Reference

  MEASURE,  Compare & Defaults,  Compare Options *then* Save Current Meas Values as References

Save Setting

STORE/RECALL, Store Setting, RAM or DISK, select associated menu at bottom of pop-up menu, then Set Next FPS and either knob, then Store Next FPS

Save Waveform

STORE/RECALL, Store Waveform, RAM or DISK, Set Next STO Index and either knob, select waveform or Store All

Scaling, waveform

UTILITY, Modes, Waveform Scaling. See also *Fast* and *High Prec*

Scan Stored Waveforms, initiate scan

STORE/RECALL, Scan/Stopped

Scan Stored Waveforms, select scan set

STORE/RECALL, Scan Using, select base label or All Stored Waveforms

Scan Stored Waveforms, set scan range

STORE/RECALL, Scan, Left knob to set beginning of range, Right knob for end

Scan Stored Waveforms, set scan rate

STORE/RECALL, Scan Rate, either knob

Scan Stored Waveforms, single step

STORE/RECALL, Next or Previous

Secure, hardcopy mode

UTILITY, Hardcopy, Security Option

Select Waveform

Touch waveform on display. Alternate:
 WAVEFORM, Page to All Wfms Status then select waveform in major menu area

Self Test

UTILITY, Self Test, Self Test

Self Test, extended diagnostics

UTILITY, Extended Diagnostic,
 Extended Diagnostic *then run desired tests
then Exit*

Setting, recall front panel setup

STORE/RECALL, Recall Setting, RAM
or DISK, select setting

Setting, sequence to next

STORE/RECALL, Recall Setting, Se-
quencing (set to On) *then Next Setting.*
*Alternate: press probe button if ID function is
set to sequence setting (see Probe ID Button)*

Setting, store front panel setup

STORE/RECALL, Store Setting, RAM
or DISK, select menu to be stored with set-
ting at bottom of pop-up menu, *then Set Next
FPS and either knob, then Store Next FPS*

Signal Source

DefWfm and as needed (all waveforms). *Al-
ternate: Input channel (single-channel
waveforms only)*

Signal/Noise Ratio, default measurement param-
eter

MEASURE, Compare & Defaults,
 Default Parameters *then S/N Ratio, Right
knob*

Size, adjust horizontal

Select waveform, , Left knob

Size, adjust vertical

Select waveform, , Left knob

Skew, timing measurement

MEASURE, Measurements, Skew

Slope, default measurement parameter

MEASURE, Compare & Defaults,
 Default Parameters *then Slope*

Slope, trigger

TRIGGER, Trigger Select (Main or Win-
dow) *then Slope*

Sound, on/off

UTILITY, Modes, Audio Feedback

Source, signal

DefWfm and as needed (all waveforms). Alternate: Input channel (single-channel waveforms only)

Source, trigger

TRIGGER, Trigger Select (Main or Window) then Source Desc, type description then Enter Desc

Spectral Frequency, frequency domain measurement

MEASURE, Measurements, Spectral Freq

Spectral Magnitude, frequency domain measurement

MEASURE, Measurements, Spectral Mag

Split Dot Cursors

Select first waveform, Cursors, Cursor Type, Split Dots then touch selector for second waveform

Statistics, on/off

MEASURE, Statistics, Statistics
Note: Main→Win Trig Time measurement has its own statistics control: Main→Win Trig Time, "Statistics" section

Statistics, restart logging

MEASURE, Statistics, Reset

Statistics, set N

MEASURE, Statistics, Statistics N, either knob

Status, waveform

WAVEFORM, Vertical Desc selector shows some status. Alternate: WAVEFORM, Show Full Waveform Desc

Stop Bits, RS-232-C

UTILITY, RS-232-C, Stop Bits

Store Setting

STORE/RECALL, Store Setting, RAM or DISK, select associated menu at bottom of pop-up menu, then Set Next FPS and either knob, then Store Next FPS

Store Waveform

STORE/RECALL, Store Waveform, RAM or DISK, Set Next STO Index, either knob, select waveform or Store All

Stored Waveform, recall

STORE/RECALL, Recall Waveform, RAM or DISK, select waveform

Stored Waveform, time/date label format

UTILITY, Modes, Stored Wfm Time Fmt (shows time/date stamp on menu selectors for stored waveforms with date or with hundredths of seconds)

Teksecure, erase memory

UTILITY, Teksecure Erase Mem, Teksecure Erase Mem

Terminator, GPIB

UTILITY, GPIB, Terminator

Text display on screen – define

UTILITY, Label, Text, then type text (from key list of Upper Case, Lower Case, or Numbers). Back Space or Erase to correct errors. Exit
See also Label.

THD, frequency domain measurement

MEASURE, Measurements, THD

Time, delay window trigger by see Holdoff

Time, set

UTILITY, Time & Date, select item to change, adjust using knobs

Time A→B, timing measurement

MEASURE, Measurements, Main→Win Trig Time

Time/Div

Select waveform, \leftrightarrow , \odot Left knob

Time Base Position

Select waveform, \leftrightarrow , \odot Right knob

Time Base Size

Select waveform, \leftrightarrow , \odot Left knob

Time Mode, default measurement parameter

\square \square MEASURE, \equiv Compare & Defaults,
 \equiv Default Parameters *then* Time Mode

Topline, default measurement parameter

\square \square MEASURE, \equiv Compare & Defaults,
 \equiv Default Parameters *then* Topline *then*
 \odot Right knob

Touch Panel, on/off

\square TOUCH PANEL

Tracking, default measurement parameter

\square \square MEASURE, \equiv Compare & Defaults,
 \equiv Default Parameters *then* Tracking

Trig After Delay

\square TRIGGER, \equiv Trigger Select (Win-
dow, Source Desc \equiv Window Holdoff By Time

Trigger Time Delay, timing measurement

\square MEASURE, \equiv Measurements,
 \equiv Main \rightarrow Win Trig Time

Trigger, AC coupling

\square TRIGGER, \equiv Trigger Select (Main or Win-
dow) *then* Coupling, \equiv AC

Trigger, auto level mode

\square TRIGGER, \equiv Trigger Select (Main or Win-
dow) *then* Mode, \equiv Auto Level

Trigger, auto mode

\square TRIGGER, \equiv Trigger Select (Main or Win-
dow) *then* Mode, \equiv Auto

Trigger, DC coupling

TRIGGER, Trigger Select (Main or Window) *then* Coupling, DC

Trigger, high pass filter coupling

TRIGGER, Trigger Select (Main or Window) *then* Coupling, select

Trigger holdoff window by events, establishing

TRIGGER, Trigger Select (Window), Source Desc, Window Holdoff By Events

Trigger holdoff window by time, establishing

TRIGGER, Trigger Select (Window) Source Desc, Window Holdoff By Time

Trigger holdoff window by time or events, adjusting

W, Right knob. Alternate: TRIGGER, Time Holdoff or Events Holdoff, Right knob

Trigger, holdoff window, removing

TRIGGER, Trigger Select (Window), Source Desc, Window Triggered From Main

Trigger, level

W or *W*, Left knob. Alternate: TRIGGER, Level, Left knob

Trigger, line

TRIGGER, Trigger Select (Main or Window) *then* Coupling, Line

Trigger, low pass filter coupling

TRIGGER, Trigger Select (Main or Window) *then* Coupling, select coupling

Trigger, noise filter coupling

TRIGGER, Trigger Select (Main or Window) *then* Coupling , select coupling

Trigger, normal mode

TRIGGER, Trigger Select (Main or Window) *then* Mode, Normal

Trigger, repetitive — set parameters

WAVEFORM, Acquire Desc, Trigger Select Main or Trigger Select Window, Set Rep Trigger N and either knob; Page To Auto-store Parameters Menu and as needed

Trigger, repetitive — start acquisition

WAVEFORM, Acquire Desc, Rep Trig Complete, DIGITIZER

Trigger, single sequence

WAVEFORM, Acquire Desc, Single Sequence (press DIGITIZER for each successive acquisition)

Trigger, single shot

WAVEFORM, Acquire Desc, Single Trigger (press DIGITIZER for each successive acquisition)

Trigger, slope

TRIGGER, Trigger Select (Main or Window) then Slope

Trigger, source

TRIGGER, Trigger Select (Main or Window) then Source Desc, type description then Enter Desc

Trigger window holdoff by events, establishing

TRIGGER, Trigger Select (Window), Source Desc, Window Triggered By Events

Trigger window holdoff by time, establishing

TRIGGER, Trigger Select (Window), Source Desc, Window Holdoff By Time

Trigger window holdoff by time or events, adjusting

Right knob. Alternate: TRIGGER, Time Holdoff or Events Holdoff, Right knob

Trigger, window holdoff, removing

TRIGGER, Trigger Select (Window), Source Desc, Window Triggered From Main

TTL, Autoset mode

UTILITY, Modes, Vertical

Undershoot, amplitude measurement

MEASURE, Measurements, Under-Shoot

Variable Persistence, on/off

WAVEFORM, Horizontal Desc, Variable Persist.

Vector Mode, display mode on/off

UTILITY, Modes, Vektored Waveforms

Verbose, RS-232-C

UTILITY, RS-232-C, Verbose

Vertical Bar Cursors

Select waveform, Cursors, Cursor Type, Vertical Bars

Vertical Offset

Select waveform, Right knob

Vertical Size

Select waveform, Left knob

Volts/Div

Select waveform, Left knob

Waveform, calculations and functions

WAVEFORM, Vertical Desc, as needed then Enter Desc

Waveform, clear data points

Select waveform, Rem Wfm #, Clear Wfm #

Waveform, create new

DefWfm and as needed (all waveforms). Alternate: Input channel (single-channel waveforms only)

Waveform, move to other graticule

Select waveform to move, WAVEFORM, Upper Graticule or Lower Graticule, Move Waveform to Other Graticule

Waveform, recall stored

STORE/RECALL, Recall Waveform, RAM or DISK, select waveform

Waveform, remove

Select waveform to delete, Rem Wfm #,
 Remove Wfm #

Waveform, scaling

UTILITY, Modes, Waveform Scaling.
 See also *Fast and High Prec*

Waveform, select

Touch waveform on display. Alternate: WA-
 VEFORM, Page to All Wfms Status then
 select waveform in major menu area

Waveform, status

WAVEFORM, Vertical Desc selector
 shows some status. Alternate: WAVE-
 FORM, Show Full Wfm Desc

Waveform, store

STORE/RECALL, Store Waveform,
 RAM or DISK, Set Next Sto Index, ei-
 ther knob, select waveform or Store All

Waveform, vertical description

WAVEFORM, Vertical Desc (shows some
 status), extend or modify as needed then
 Enter Desc

Waveform, XY from two live waveforms

Create and select Y waveform, WAVEFORM,
 Horizontal Desc, select X waveform

Waveform, XY from two stored waveforms

Create and select stored Y waveform, WA-
 VEFORM, Horizontal Desc, select X
 stored waveform

Waveform Color, change assignment

Select waveform, UTILITY, Color, Se-
 lected Wfm Color repeatedly until set to desired
 color. Window waveforms cannot be reas-
 signed. Note: see *Color* for more color control

Waveform Label, define

UTILITY, Label, select entity to display (first Displayed Waveforms, Stored Waveforms, or Stored Settings, then the entity from the list below), then type label (from key list of Upper Case, Lower Case, Numbers, Graphics, Greek, or Other). Back Space to correct errors or Erase to delete. Exit

Waveform Label, change or delete

UTILITY, Label, select entity to change or delete (first Displayed Waveforms, Stored Waveforms, or Stored Settings, then the entity from the list below), then type label (from key list of Upper Case, Lower Case, Numbers, Graphics, Greek, or Other). Back Space to correct errors or Erase to delete text. Exit

Waveform Label, move

Select waveform, UTILITY, Label Displayed Waveforms then Position, then Exit, to move

Waveform Label, on/off

UTILITY, Label Displayed Waveforms then Display

Waveform Label, stored waveform time/date format

UTILITY, Modes, Stored Wfm Time Fmt (shows time/date stamp on menu selectors for stored waveforms with date or with hundredths of seconds)

Window Position

Select waveform, , Right knob

Window Size

Select waveform, , Left knob

Window, create new waveform

Select source waveform, Window1 or Window2

Window, record length

WAVEFORM, Horizontal Desc, Window Record Length, Right knob

Window, remove

Select window waveform to delete, Rem Wfm #, Remove Wfm #

Window, trigger holdoff by events, establishing

TRIGGER, Trigger Select (Window), Source Desc, Window Holdoff By Events

Window, trigger holdoff by time, establishing

TRIGGER, Trigger Select (Window), Source Desc, Window Holdoff By Time

Window, trigger holdoff by time or events, adjusting

k, Right knob. Alternate: TRIGGER, Time Holdoff or Events Holdoff, Right knob

Window, trigger holdoff, removing

TRIGGER, Trigger Select (Window), Source Desc, Window Triggered From Main

XY Waveform, from two live waveforms

Create and select Y waveform, WAVEFORM, Horizontal Desc, select X waveform

XY Waveform, from two stored waveforms

Create and select stored Y waveform, WAVEFORM, Horizontal Desc, select X stored waveform

Zoom Interpolation, set type

UTILITY, Modes, Zoom Intp

SECURE: {ON|OFF}

PIN24 <link> <arg>
FORMat: {DRAT|HRES|REDUCed}
PORt: {CENTRonic|DISK|GRib|RS232}
SECURE: {ON|OFF}

MODr: {SCAN|STOP}
NEXT
PREVIOUS
RATE: <NRx>
TO: <ur>
USIng: {ALL|<qstring>}
SLOCKed {ERABle|DISABle}
SELect {TRAcce<ur>|<qstring>}

SECURE: {ON|OFF}
TEK4696 <link> <arg>
COLOR: DEFault
COLOR<ur>: <ur>
DIREction: {HORz|VERt}

SECURE: {ON|OFF} (Set-only)
TEST {XTRG} (Set-only)
TEXt: {<link>|<arg>}

EVHoldoff: <NRx>
MODE: {AUTO|Level|NORMal}
NLevel: <NRx> [VOLts|DIVS]
SLOPe: {PLUS|MINUS}

M

MEAS: <ur> <NRx>
MEAS: <ur> <NRx>
MEAS: <ur> <NRx>

N-O

NOISE: <ur> <NRx>
NOISE: <ur> <NRx>
NOISE: <ur> <NRx>

P

PAR: <ur> <NRx>
PAR: <ur> <NRx>
PAR: <ur> <NRx>

R

RECAL: <ur> <NRx>
RECAL: <ur> <NRx>
RECAL: <ur> <NRx>

S

SAVEFACTORY
SCANSLOW: <ur> <NRx>
SCANSLOW: <ur> <NRx>

T

TEK4692 <link> <arg>
TEK4692 <link> <arg>
TEK4692 <link> <arg>

U-V

UID <link> <arg>
UID <link> <arg>
UID <link> <arg>

W

WAV: <ur> <NRx>
WAV: <ur> <NRx>
WAV: <ur> <NRx>

S

SAVEFACTORY
SCANSLOW: <ur> <NRx>
SCANSLOW: <ur> <NRx>

T

TEK4692 <link> <arg>
TEK4692 <link> <arg>
TEK4692 <link> <arg>

U-V

UID <link> <arg>
UID <link> <arg>
UID <link> <arg>

W

WAV: <ur> <NRx>
WAV: <ur> <NRx>
WAV: <ur> <NRx>

Escape Character Set

Bits	1 0 1			1 0 1 1			1 1 0 1			1 1 1 1			1 0 0 0				
B8 B7 B6 B5	1	0	1	1	0	1	1	0	1	1	1	0	1	1	1	1	1
B4 B3 B2 B1	1	0	1	1	0	1	1	0	1	1	1	0	1	1	1	1	1
0 0 0 0	0	20	40	60	100	120	140	160	Ä	Ń	User Index 1	Π	π	↓	...		
0 0 0 1	1	21	41	61	101	121	141	161	ä	ñ	User Index 2	α	ø	↑	Ä		
0 0 1 0	2	22	42	62	102	122	142	162	ö	ş	User Index 3	γ	ρ	→	E		
0 0 1 1	3	23	43	63	103	123	143	163	ö	i	User Index 4	δ	Σ	←	R		
0 1 0 0	4	24	44	64	104	124	144	164	ü	ř	User Index 5	Δ	τ	∫	T		
0 1 0 1	5	25	45	65	105	125	145	165	ü	ř	User Index 6	ε	ν	÷	∟		
0 1 1 0	6	26	46	66	106	126	146	166	à	À	User Index 7	φ	ν	°	└		
0 1 1 1	7	27	47	67	107	127	147	167	è	õ		Γ	ω	√	┌		
1 0 0 0	8	30	50	70	110	130	150	170	á	ä		θ	χ	≠	L		
1 0 0 1	9	31	51	71	111	131	151	171	é	É		ι	ξ	±	+		
1 0 1 0	10	32	52	72	112	132	152	172	À	Ø		ψ	ζ	≠	—		
1 0 1 1	11	33	53	73	113	133	153	173	á	ø		κ	φ	≤	└		
1 1 0 0	12	34	54	74	114	134	154	174	Æ	Œ		λ	Δ	≥	┌		
1 1 0 1	13	35	55	75	115	135	155	175	æ	œ		μ	ψ	⊙	└		
1 1 1 0	14	36	56	76	116	136	156	176	ç	Ç		η	σ	⊙	T		
1 1 1 1	15	37	57	77	117	137	157	177	β	∞		Ω	∩	≈			
	16	38	58	78	118	138	158	178	ƒ	∞		Ω	∩	≈			
	17	39	59	79	119	139	159	179	ƒ	∞		Ω	∩	≈			
	18	40	60	80	120	140	160	180	ƒ	∞		Ω	∩	≈			
	19	41	61	81	121	141	161	181	ƒ	∞		Ω	∩	≈			
	20	42	62	82	122	142	162	182	ƒ	∞		Ω	∩	≈			
	21	43	63	83	123	143	163	183	ƒ	∞		Ω	∩	≈			
	22	44	64	84	124	144	164	184	ƒ	∞		Ω	∩	≈			
	23	45	65	85	125	145	165	185	ƒ	∞		Ω	∩	≈			
	24	46	66	86	126	146	166	186	ƒ	∞		Ω	∩	≈			
	25	47	67	87	127	147	167	187	ƒ	∞		Ω	∩	≈			
	26	48	68	88	128	148	168	188	ƒ	∞		Ω	∩	≈			
	27	49	69	89	129	149	169	189	ƒ	∞		Ω	∩	≈			
	28	50	70	90	130	150	170	190	ƒ	∞		Ω	∩	≈			
	29	51	71	91	131	151	171	191	ƒ	∞		Ω	∩	≈			
	30	52	72	92	132	152	172	192	ƒ	∞		Ω	∩	≈			
	31	53	73	93	133	153	173	193	ƒ	∞		Ω	∩	≈			
	32	54	74	94	134	154	174	194	ƒ	∞		Ω	∩	≈			
	33	55	75	95	135	155	175	195	ƒ	∞		Ω	∩	≈			
	34	56	76	96	136	156	176	196	ƒ	∞		Ω	∩	≈			
	35	57	77	97	137	157	177	197	ƒ	∞		Ω	∩	≈			
	36	58	78	98	138	158	178	198	ƒ	∞		Ω	∩	≈			
	37	59	79	99	139	159	179	199	ƒ	∞		Ω	∩	≈			
	38	60	80	100	140	160	180	200	ƒ	∞		Ω	∩	≈			
	39	61	81	101	141	161	181	201	ƒ	∞		Ω	∩	≈			
	40	62	82	102	142	162	182	202	ƒ	∞		Ω	∩	≈			
	41	63	83	103	143	163	183	203	ƒ	∞		Ω	∩	≈			
	42	64	84	104	144	164	184	204	ƒ	∞		Ω	∩	≈			
	43	65	85	105	145	165	185	205	ƒ	∞		Ω	∩	≈			
	44	66	86	106	146	166	186	206	ƒ	∞		Ω	∩	≈			
	45	67	87	107	147	167	187	207	ƒ	∞		Ω	∩	≈			
	46	68	88	108	148	168	188	208	ƒ	∞		Ω	∩	≈			
	47	69	89	109	149	169	189	209	ƒ	∞		Ω	∩	≈			
	48	70	90	110	130	150	170	210	ƒ	∞		Ω	∩	≈			
	49	71	91	111	131	151	171	211	ƒ	∞		Ω	∩	≈			
	50	72	92	112	132	152	172	212	ƒ	∞		Ω	∩	≈			
	51	73	93	113	133	153	173	213	ƒ	∞		Ω	∩	≈			
	52	74	94	114	134	154	174	214	ƒ	∞		Ω	∩	≈			
	53	75	95	115	135	155	175	215	ƒ	∞		Ω	∩	≈			
	54	76	96	116	136	156	176	216	ƒ	∞		Ω	∩	≈			
	55	77	97	117	137	157	177	217	ƒ	∞		Ω	∩	≈			
	56	78	98	118	138	158	178	218	ƒ	∞		Ω	∩	≈			
	57	79	99	119	139	159	179	219	ƒ	∞		Ω	∩	≈			

Key

Octal	17	β	Escape character
Hex	F	15	Decimal

TEKTRONIX

DSA 601A & DSA 602A
DIGITIZING SIGNAL ANALYZERS

QUICK REFERENCE

070-8183-00



Data Services

ASCII CODE CHART

HEX	CONTROL	NUMBERS	UPPER CASE	LOWER CASE
00	SOH	0	A	a
01	STX	1	B	b
02	ETX	2	C	c
03	END	3	D	d
04	SO	4	E	e
05	SI	5	F	f
06	DEL	6	G	g
07	DC1	7	H	h
08	DC2	8	I	i
09	DC3	9	J	j
0A	DC4		K	k
0B	NAK		L	l
0C	SYN		M	m
0D	ETB		N	n
0E	CAN		O	o
0F	EM		P	p
10	ESC		Q	q
11			R	r
12			S	s
13			T	t
14			U	u
15			V	v
16			W	w
17			X	x
18			Y	y
19			Z	z
1A			[[
1B			\	\
1C			^	^
1D			_	_
1E			`	`
1F			~	~
20	SP			
21	!			
22	@			
23	#			
24	\$			
25	%			
26	&			
27	'			
28	(
29)			
2A	*			
2B	+			
2C	,			
2D	-			
2E	.			
2F	/			
30	0			
31	1			
32	2			
33	3			
34	4			
35	5			
36	6			
37	7			
38	8			
39	9			
3A	:			
3B	;			
3C	<			
3D	=			
3E	>			
3F	?@			
40	0			
41	1			
42	2			
43	3			
44	4			
45	5			
46	6			
47	7			
48	8			
49	9			
4A	:			
4B	;			
4C	<			
4D	=			
4E	>			
4F	?@			
50	0			
51	1			
52	2			
53	3			
54	4			
55	5			
56	6			
57	7			
58	8			
59	9			
5A	:			
5B	;			
5C	<			
5D	=			
5E	>			
5F	?@			
60	0			
61	1			
62	2			
63	3			
64	4			
65	5			
66	6			
67	7			
68	8			
69	9			
6A	:			
6B	;			
6C	<			
6D	=			
6E	>			
6F	?@			
70	0			
71	1			
72	2			
73	3			
74	4			
75	5			
76	6			
77	7			
78	8			
79	9			
7A	:			
7B	;			
7C	<			
7D	=			
7E	>			
7F	?@			
80	0			
81	1			
82	2			
83	3			
84	4			
85	5			
86	6			
87	7			
88	8			
89	9			
8A	:			
8B	;			
8C	<			
8D	=			
8E	>			
8F	?@			
90	0			
91	1			
92	2			
93	3			
94	4			
95	5			
96	6			
97	7			
98	8			
99	9			
9A	:			
9B	;			
9C	<			
9D	=			
9E	>			
9F	?@			
AA	0			
AB	1			
AC	2			
AD	3			
AE	4			
AF	5			
B0	6			
B1	7			
B2	8			
B3	9			
B4	:			
B5	;			
B6	<			
B7	=			
B8	>			
B9	?@			
BA	0			
BB	1			
BC	2			
BD	3			
BE	4			
BF	5			
C0	6			
C1	7			
C2	8			
C3	9			
C4	:			
C5	;			
C6	<			
C7	=			
C8	>			
C9	?@			
CA	0			
CB	1			
CC	2			
CD	3			
CE	4			
CF	5			
D0	6			
D1	7			
D2	8			
D3	9			
D4	:			
D5	;			
D6	<			
D7	=			
D8	>			
D9	?@			
DA	0			
DB	1			
DC	2			
DD	3			
DE	4			
DF	5			
E0	6			
E1	7			
E2	8			
E3	9			
E4	:			
E5	;			
E6	<			
E7	=			
E8	>			
E9	?@			
EA	0			
EB	1			
EC	2			
ED	3			
EE	4			
EF	5			
F0	6			
F1	7			
F2	8			
F3	9			
F4	:			
F5	;			
F6	<			
F7	=			
F8	>			
F9	?@			
FA	0			
FB	1			
FC	2			
FD	3			
FE	4			
FF	5			

NEW

TEKTRONIX

MANUAL CHANGE INFORMATION

At Tektronix, we continually strive to keep up with the latest electronic developments by adding circuit and component improvements to our instruments as soon as they are developed and tested.

Sometimes, due to printing and shipping requirements, we can't get these changes immediately into printed manuals. Hence, your manual may contain new change information on the following pages.

A single change may affect several sections. Since the change information sheets are carried in the manual until all changes are permanently entered, some duplication may occur. If no such change pages appear following this page, your manual is correct as printed.

