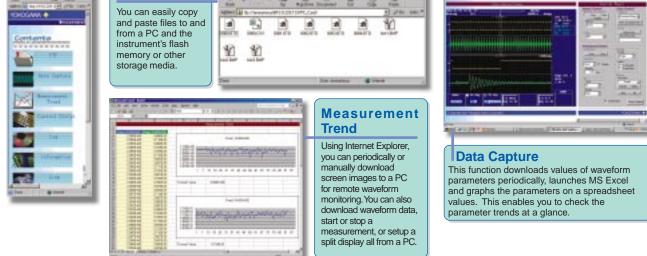
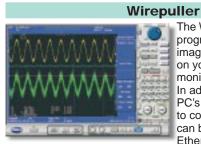


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Advanced Networking and PC Connectivity Web Server Functions Connect the DL750 to your PC through the Ethernet connection. This allows for easy remote operation using Internet Explorer. Image: Server Functions Image: Server Functions Image: Server Functions Connect the DL750 to your PC through the Ethernet connection. This allows for easy remote operation using Internet Explorer. Image: Server Functions Image: Server Functions



Software for Waveform Measurement on a PC Software for Remotely Controlling the DL Series

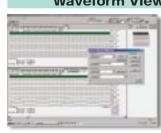


The Wirepuller software program displays a screen image of the DL's front panel on your PC so that you can monitor waveform signals. In addition, you can use the PC's mouse and keyboard to control the DL. The DL can be controlled via an Ethernet, USB, or GP-IB.

This software program can be downloaded from the following URL (requires registration):

http://www.yokogawa.com/tm/Bu/DLsoft/wire/ Further details are available at the YOKOGAWA web site.

Software for Using Your PC to Check Waveform Data Captured in Long Memory Waveform Viewer for DL Series



The Waveform Viewer software program lets you view waveform signals on your PC just as they appear on the DL screen. This includes zoom display, X-Y display and the history memory thumbnail displays. In addition, data can be converted to CSV format for use in programs like Excel.

A trial version of this software program can be downloaded from the following URL:

http://www.yokogawa.com/tm/Bu/700919/ Further details are available at the YOKOGAWA web site.

Main Unit Specifications

Triggers Modes Pretrigger Simple trigger source **Basic Specifications** AUTO, AUTO LEVEL, NORMAL, SINGLE, SINGLE (N), LOG 0 to 100% (in 0.1% step) CH1 to CH16, DSP1 to DSP6, LINE, EXT, LOGIC_A, LOGIC_B, TIME CH1 to CH16, DSP1 to DSP6: Rise, fall, rise-fall EXT (external trigger input), LOGIC_A, LOGIC_B: Rise fall Input Type Plug-in module (Each unit has a build-in A/D converter) Slots Slope selection Logic inputs Horizontal 16 (8 bits \times 2) 2.5 MW/CH, 50 MW total (standard) 10 MW/CH, 250 MW total (with /M1 option) 25 MW/CH, 500 MW total (with /M2 option) 50 MW/CH, 1 GW total (with /M3 option) ±0.005% 500 ns to 5 sec/div (in steps of 1, 2, or 5), 10 sec/ Rise, fall Time: Date (year/month/date), hour (hours/ minutes), time interval (1 minute to 24 hours) 9 CH1 to CH16, LOGIC_A, LOGIC_B $A \rightarrow B$ (N), A delay B, B > Time, B < Time, B Time Out, Period, Window, OR, Edge On A, Wave Rise, fall Maximum record length Enhanced trigger source Enhanced trigger type Time axis accuracy1 Screen updating rate Typical operating conditions: Ambient temperature of 23°C ± 5°C, ambient humidity (RH) of 55 ± 10% Sweep time div, 20 sec/div, 30 sec/div 3, 4, 6, 8, 10, 20, 30 sec/div 1 to 10 min/div (1 min steps), 12 min/div, 15 min/ div, 30 min/div 1 to 10 h/div (1 h steps), 12 h/div 1 day/div, 2 days/div, 3 days/div Display 10.4-inch color TFT liquid crystal display 211.2 mm × 158.4 mm 800 × 600¹ 650 × 512 (in normal waveform display mode) 750 × 512 (in wide waveform display mode) Single, dual, triad, quad, octal Main, Main & Z1, Main & Z1 & Z2, Main & Z2, Z1 Only, Z2 Only, Z1 & Z2 (Z1 and Z2 are Display Effective screen size Acquisition modes Maximum sampling rate: 10 MS/s Holds peak value at maximum sampling rate, regardless of time/div setting Increases A/D resolution up to 4 bits (up to 16 bits) Number of averaging: 2 to 65,536 (2ⁿ steps) Normal Envelope Resolution Waveform display pixels Box average Display modes Split Averaging Zoom Roll 100 msec/div or less

Main Unit Specifications



	abbreviations for zoom area 1 and zoom 2, respectively)
XY	Single Mode (X is fixed, Y is set by user), Quad
Accumulation	Mode (XY1, XY2, XY3, XY4) PERSIST Overlays in one color.
The LCD may contain so	ome pixels that are always off or always on. In
	vary due to the characteristics of the liquid crystal dication of any problem with the display.
Recorder	
Built-in printer Printing method	Thermal line-dot printing
Paper width	112 mm
Effective recording width Functions	Screen printing, long printing
	ording (with /C8 option) 1 GW (for one time record)
Data capacity Maximum sampling rate	1 GW (for one time record) 100 kS/s (using 1 channel)
DualCapture	
	same waveform data at two different sampling rates.
Main (low-speed) maxim	um sampling rate
Sub (high-speed) maxim	Roll mode area at 100 kS/s num sampling rate
Main maximum memory	10 MS/s
	100 MW (with /M3 option)
Sub memory length Sub maximum number of	10 kW (fixed) if captured screens
	100
Analysis Functions	
Channel-to-channel calc Definable math waveform	
	800 kW (using MATH1 only)
Standard operators	100 kW (using MATH1 through MATH8) Addition, subtraction, multiplication, division, binary
-	conversion, phase shifting, FFT
Number of points	PS (Power Spectrum) 1000, 2000, 10,000
Window functions	Rectangular, Hanning, Flat-Top
User-defined math funct Operators	ABS, SQR, LOG, EXP, NEG, SIN, COS, TAN,
	ATAN, PH, DIF, DDIF, INTG, BIN, P2, P3, F1, F2, FV, PWHH, PWHL, PWLH, PWLL, PWXX, FILT1,
	FILT2, HLBT, MEAN, MAG, LOGMAG, PHASE,
FFT types	REAL, IMAG LS PS PSD CS TE CH
Number of points	LS, PS, PSD, CS, TF, CH 1000, 2000, 10,000
Number of points Window functions	LS, PS, PSD, CS, TF, CH 1000, 2000, 10,000 Rectangular, Hanning, Flat-Top
Number of points Window functions DSP Channel Function	LS, PS, PSD, CS, TF, CH 1000, 2000, 10,000 Rectangular, Hanning, Flat-Top (with the /G3 option)
Number of points Window functions DSP Channel Function DSP channels	LS, PS, PSD, CS, TF, CH 1000, 2000, 10,000 Rectangular, Hanning, Flat-Top (with the /G3 option) 6 100 kS/s (when exceeding 100 kS/s, the sampling
Number of points Window functions DSP Channel Function DSP channels Maximum sampling rate ¹	LS, PS, PSD, CS, TF, CH 1000, 2000, 10,000 Rectangular, Hanning, Flat-Top (with the /G3 option) 6 100 kS/s (when exceeding 100 kS/s, the sampling rate is resampled at 100 kS/s)
Number of points Window functions DSP Channel Function DSP channels	LS, PS, PSD, CS, TF, CH 1000, 2000, 10,000 Rectangular, Hanning, Flat-Top (with the /G3 option) 6 100 kS/s (when exceeding 100 kS/s, the sampling rate is resampled at 100 kS/s) Calculation between channels (addition, subtraction, multiplication, division), differentiation
Number of points Window functions DSP Channel Function DSP channels Maximum sampling rate ¹	LS, PS, PSD, CS, TF, CH 1000, 2000, 10,000 Rectangular, Hanning, Flat-Top (with the /G3 option) 6 100 kS/s (when exceeding 100 kS/s, the sampling rate is resampled at 100 kS/s) Calculation between channels (addition,
Number of points Window functions DSP Channel Function DSP channels Maximum sampling rate ¹	LS, PS, PSD, CS, TF, CH 1000, 2000, 10,000 Rectangular, Hanning, Flat-Top (with the /G3 option) 6 100 kS/s (when exceeding 100 kS/s, the sampling rate is resampled at 100 kS/s) Calculation between channels (addition, subtraction, multiplication, division), differentiation (w/ LPF), integration, digital filtering (LPF/HPF/BPF, FIR type, IIR type, variable cutoff frequency) ing range
Number of points Window functions DSP Channel Function DSP channels Maximum sampling rate ¹ Operators Digital filtering cutoff sett	LS, PS, PSD, CS, TF, CH 1000, 2000, 10,000 Rectangular, Hanning, Flat-Top (with the /G3 option) 6 100 kS/s (when exceeding 100 kS/s, the sampling rate is resampled at 100 kS/s) Calculation between channels (addition, subtraction, multiplication, division), differentiation (w/ LPF), integration, digital filtering (LPF/HPF/BPF, FIR type, IIR type, variable cutoff frequency) ing range IIR type: 0.2 to 30% of sampling frequency FIR type: 2 to 30% of sampling frequency
Number of points Window functions DSP Channel Function DSP channels Maximum sampling rate ¹ Operators Digital filtering cutoff sett Calculation delay	LS, PS, PSD, CS, TF, CH 1000, 2000, 10,000 Rectangular, Hanning, Flat-Top (with the /G3 option) 6 100 kS/s (when exceeding 100 kS/s, the sampling rate is resampled at 100 kS/s) Calculation between channels (addition, subtraction, multiplication, division), differentiation (w/ LPF), integration, digital filtering (LPF/HPF/BPF, FIR type, IIR type, variable cutoff frequency) ing range IIR type: 0.2 to 30% of sampling frequency FIR type: 2 to 30% of sampling frequency FIR type: 2 to 30% of sampling frequency
Number of points Window functions DSP Channel Function DSP channels Maximum sampling rate ¹ Operators Digital filtering cutoff sett Calculation delay	LS, PS, PSD, CS, TF, CH 1000, 2000, 10,000 Rectangular, Hanning, Flat-Top (with the /G3 option) 6 100 kS/s (when exceeding 100 kS/s, the sampling rate is resampled at 100 kS/s) Calculation between channels (addition, subtraction, multiplication, division), differentiation (w/ LPF), integration, digital filtering (LPF/HPF/BPF, FIR type, IIR type, variable cutoff frequency) ing range IIR type: 0.2 to 30% of sampling frequency FIR type: 2 to 30% of sampling frequency
Number of points Window functions DSP Channel Function DSP channels Maximum sampling rate ¹ Operators Digital filtering cutoff sett Calculation delay When the DSP channel	LS, PS, PSD, CS, TF, CH 1000, 2000, 10,000 Rectangular, Hanning, Flat-Top (with the /G3 option) 6 100 kS/s (when exceeding 100 kS/s, the sampling rate is resampled at 100 kS/s) Calculation between channels (addition, subtraction, multiplication, division), differentiation (w/ LPF), integration, digital filtering (LPF/HPF/BPF, FIR type, IIR type, variable cutoff frequency) ting range IIR type: 0.2 to 30% of sampling frequency FIR type: 2 to 30% of sampling frequency FIR type: 2 to 30% of sampling requency so ON, the maximum sampling rate of the analog
Number of points Window functions DSP Channel Function DSP channels Maximum sampling rate ¹ Operators Digital filtering cutoff sett Calculation delay When the DSP channel channel is 5 MS/s. Waveform Measurement Cursors	LS, PS, PSD, CS, TF, CH 1000, 2000, 10,000 Rectangular, Hanning, Flat-Top (with the /G3 option) 6 100 kS/s (when exceeding 100 kS/s, the sampling rate is resampled at 100 kS/s) Calculation between channels (addition, subtraction, multiplication, division), differentiation (w/ LPF), integration, digital filtering (LPF/HPF/BPF, FIR type, IIR type, variable cutoff frequency) ting range IIR type: 0.2 to 30% of sampling frequency FIR type: 2 to 30% of sampling frequency s ON, the maximum sampling rate of the analog th Functions
Number of points Window functions DSP Channel Function DSP channels Maximum sampling rate ¹ Operators Digital filtering cutoff sett Calculation delay When the DSP channel channel is 5 MS/s. Waveform Measuremen Cursors Types Horizontal	LS, PS, PSD, CS, TF, CH 1000, 2000, 10,000 Rectangular, Hanning, Flat-Top (with the /G3 option) 6 100 kS/s (when exceeding 100 kS/s, the sampling rate is resampled at 100 kS/s) Calculation between channels (addition, subtraction, multiplication, division), differentiation (w/ LPF), integration, digital filtering (LPF/HPF/BPF, FIR type, IIR type, variable cutoff frequency) ting range IIR type: 0.2 to 30% of sampling frequency FIR type: 2 to 30% of sampling frequency FIR type: 2 to 30% of sampling requency so ON, the maximum sampling rate of the analog
Number of points Window functions DSP Channels Maximum sampling rate ¹ Operators Digital filtering cutoff sett Calculation delay When the DSP channel channel is 5 MS/s. Waveform Measurement Cursors Types Horizontal Vertical Marker	LS, PS, PSD, CS, TF, CH 1000, 2000, 10,000 Rectangular, Hanning, Flat-Top (with the /G3 option) 6 100 kS/s (when exceeding 100 kS/s, the sampling rate is resampled at 100 kS/s) Calculation between channels (addition, subtraction, multiplication, division), differentiation (w/ LPF), integration, digital filtering (LPF/HPF/BPF, FIR type, IIR type, variable cutoff frequency) ting range IIR type: 0.2 to 30% of sampling frequency FIR type: 2 to 30% of sampling frequency so N, the maximum sampling rate of the analog ht Functions Two cursors Two cursors Two cursors Four markers
Number of points Window functions DSP Channel Function DSP channels Maximum sampling rate ¹ Operators Digital filtering cutoff sett Calculation delay When the DSP channel channel is 5 MS/s. Waveform Measuremen Cursors Types Horizontal Vertical Marker Degree	LS, PS, PSD, CS, TF, CH 1000, 2000, 10,000 Rectangular, Hanning, Flat-Top (with the /G3 option) 6 100 kS/s (when exceeding 100 kS/s, the sampling rate is resampled at 100 kS/s) Calculation between channels (addition, subtraction, multiplication, division), differentiation (w/ LPF), integration, digital filtering (LPF/HPF/BPF, FIR type, IIR type, variable cutoff frequency) ting range IIR type: 0.2 to 30% of sampling frequency FIR type: 2 to 30% of sampling frequency FIR type: 2 to 30% of sampling requency FIR type: 2 to 30% of sampling trequency FIR type: 2 to 3
Number of points Window functions DSP Channels Maximum sampling rate ¹ Operators Digital filtering cutoff set Calculation delay When the DSP channel channel is 5 MS/s. Waveform Measurement Cursors Types Horizontal Vertical Marker Degree H&V	LS, PS, PSD, CS, TF, CH 1000, 2000, 10,000 Rectangular, Hanning, Flat-Top (with the /G3 option) 6 100 kS/s (when exceeding 100 kS/s, the sampling rate is resampled at 100 kS/s) Calculation between channels (addition, subtraction, multiplication, division), differentiation (w/ LPF), integration, digital filtering (LPF/HPF/BPF, FIR type, IIR type, variable cutoff frequency) ting range IIR type: 0.2 to 30% of sampling frequency FIR type: 2 to 30% of sampling frequency is ON, the maximum sampling rate of the analog ht Functions Two cursors Four markers Cursor measurement on the horizontal axis is displayed in a degree. (for TY display only) (for XY display only)
Number of points Window functions DSP Channels Maximum sampling rate ¹ Operators Digital filtering cutoff set Calculation delay When the DSP channel channel is 5 MS/s. Waveform Measurement Cursors Types Horizontal Vertical Marker Degree H&V	LS, PS, PSD, CS, TF, CH 1000, 2000, 10,000 Rectangular, Hanning, Flat-Top (with the /G3 option) 6 100 kS/s (when exceeding 100 kS/s, the sampling rate is resampled at 100 kS/s) Calculation between channels (addition, subtraction, multiplication, division), differentiation (w/ LPF), integration, digital filtering (LPF/HPF/BPF, FIR type, IIR type, variable cutoff frequency) ting range IIR type: 0.2 to 30% of sampling frequency FIR type: 2 to 30% of sampling frequency FIR type: 2 to 30% of sampling requency for type: 2 to 30% of sampling trequency for type: 2 to 30% of sampling trequency for type: 2 to 30% of sampling trequency to cursors Two cursors Four markers Cursor measurement on the horizontal axis is displayed in a degree. (for TY display only) (for XY display only) to f waveform parameters asured parameters
Number of points Window functions DSP Channel Function DSP channels Maximum sampling rate ¹ Operators Digital filtering cutoff sett Calculation delay When the DSP channel channel is 5 MS/s. Waveform Measurement Vertical Marker Degree H&V Automatic measurement	LS, PS, PSD, CS, TF, CH 1000, 2000, 10,000 Rectangular, Hanning, Flat-Top (with the /G3 option) 6 100 kS/s (when exceeding 100 kS/s, the sampling rate is resampled at 100 kS/s) Calculation between channels (addition, subtraction, multiplication, division), differentiation (w/ LPF), integration, digital filtering (LPF/HPF/BPF, FIR type, IIR type, variable cutoff frequency) ting range IIR type: 0.2 to 30% of sampling frequency FIR type: 2 to 30% of sampling frequency FIR type: 2 to 30% of sampling rate of the analog the Functions Two cursors Four markers Cursor measurement on the horizontal axis is displayed in a degree. (for TY display only) (for XY display only) to waveform parameters asured parameters 24
Number of points Window functions DSP Channel Function DSP channels Maximum sampling rate ¹ Operators Digital filtering cutoff sett Calculation delay When the DSP channel channel is 5 MS/s. Waveform Measurement Cursors Types Horizontal Vertical Marker Degree H&V	LS, PS, PSD, CS, TF, CH 1000, 2000, 10,000 Rectangular, Hanning, Flat-Top (with the /G3 option) 6 100 kS/s (when exceeding 100 kS/s, the sampling rate is resampled at 100 kS/s) Calculation between channels (addition, subtraction, multiplication, division), differentiation (w/LPF), integration, digital filtering (LPF/HPF/BPF, FIR type, IIR type, variable cutoff frequency) ting range IIR type: 0.2 to 30% of sampling frequency FIR type: 2 to 30% of sampling requency FIR type: 2 to 30% of sampling requency FIR type: 2 to 30% of sampling trequency FIR type: 2 to 30% of sampling trequency FIR type: 2 to 30% of sampling trequency IN type: 2 to 30% of sampling trequency FIR type: 2 to 30% of sampling trequency FIR type: 2 to 30% of sampling trequency IN type: 2 to 30% of sampling trequency FIR type: 2 to 30% of sampling trequency IN type: 2 to 30% of sampling trequency FOUTHOR TO THE SAMPLING TREATING TREATING Two cursors Four markers Cursor measurement on the horizontal axis is displayed in a degree. (for TY display only) (for XY display only) tof waveform parameters asured parameters 24 P-P, Max, Min, High, Low, Avg, Rms, Amp, StdDev, +Oshot, -Oshot, Rise, Fall, Freq, Period, +Duty,
Number of points Window functions DSP Channel Function DSP channels Maximum sampling rate ¹ Operators Digital filtering cutoff sett Calculation delay When the DSP channel channel is 5 MS/s. Waveform Measurement Vertical Marker Degree H&V Automatic measurement	LS, PS, PSD, CS, TF, CH 1000, 2000, 10,000 Rectangular, Hanning, Flat-Top (with the /G3 option) 6 100 kS/s (when exceeding 100 kS/s, the sampling rate is resampled at 100 kS/s) Calculation between channels (addition, subtraction, multiplication, division), differentiation (w/LPF), integration, digital filtering (LPF/HPF/BPF, FIR type, IIR type, variable cutoff frequency) ting range IIR type: 0.2 to 30% of sampling frequency FIR type: 2 to 30% of sampling requency FIR type: 2 to 30% of sampling requency FIR type: 2 to 30% of sampling trequency FIR type: 2 to 30% of sampling trequency FIR type: 2 to 30% of sampling trequency IN type: 2 to 30% of sampling trequency FIR type: 2 to 30% of sampling trequency FIR type: 2 to 30% of sampling trequency IN type: 2 to 30% of sampling trequency FIR type: 2 to 30% of sampling trequency IN type: 2 to 30% of sampling trequency FOUTHOR TO THE SAMPLING TREATING TREATING Two cursors Four markers Cursor measurement on the horizontal axis is displayed in a degree. (for TY display only) (for XY display only) tof waveform parameters asured parameters 24 P-P, Max, Min, High, Low, Avg, Rms, Amp, StdDev, +Oshot, -Oshot, Rise, Fall, Freq, Period, +Duty,
Number of points Window functions DSP Channel Function DSP channels Maximum sampling rate ¹ Operators Digital filtering cutoff sett Calculation delay When the DSP channel channel is 5 MS/s. Waveform Measurement Marker Degree H&V Automatic measurement Maximum number of me Measured parameters Cycle statistical process	LS, PS, PSD, CS, TF, CH 1000, 2000, 10,000 Rectangular, Hanning, Flat-Top (with the /G3 option) 6 100 kS/s (when exceeding 100 kS/s, the sampling rate is resampled at 100 kS/s) Calculation between channels (addition, subtraction, multiplication, division), differentiation (w/ LPF), integration, digital filtering (LPF/HPF/BPF, FIR type, IIR type, variable cutoff frequency) ing range IIR type: 0.2 to 30% of sampling frequency FIR type: 2 to 30% of sampling frequency FIR type: 2 to 30% of sampling frequency fing trange IIR type: 0.2 to 30% of sampling frequency fix type: 2 to 30% of sampling trequency fix type: 2 to 30% of sampling requency fix type: 2 to 30% of sampling trequency fix type: 2 to 30% of sampling treque
Number of points Window functions DSP Channel Function DSP channels Maximum sampling rate ¹ Operators Digital filtering cutoff sett Calculation delay When the DSP channel channel is 5 MS/s. Waveform Measurement Cursors Types Horizontal Vertical Marker Degree H&V Automatic measurement Maximum number of me Measured parameters	LS, PS, PSD, CS, TF, CH 1000, 2000, 10,000 Rectangular, Hanning, Flat-Top (with the /G3 option) 6 100 kS/s (when exceeding 100 kS/s, the sampling rate is resampled at 100 kS/s) Calculation between channels (addition, subtraction, multiplication, division), differentiation (w/ LPF), integration, digital filtering (LPF/HPF/BPF, FIR type, IIR type, variable cutoff frequency) ting range IIR type: 0.2 to 30% of sampling frequency FIR type: 0.2 to 30% of sampling frequency 4 sampling + digital filtering calculation delay is ON, the maximum sampling rate of the analog ht Functions Two cursors Two cursors Four markers Cursor measurement on the horizontal axis is displayed in a degree. (for TY display only) (for XY display only) to waveform parameters asured parameters 24 P-P, Max, Min, High, Low, Avg, Rms, Amp, StdDev, + Width, – Width, Pulse Burst1, Burst2, Avg Freq, Avg Period, Delay, Int1TY, Int2TY, Int1XY, Int2XY des 24,000 (for one parameter) of parameters
Number of points Window functions DSP Channel Function DSP channels Maximum sampling rate ¹ Operators Digital filtering cutoff sett Calculation delay When the DSP channel channel is 5 MS/s. Waveform Measurement Marker Degree H&V Automatic measurement Maximum number of me Measured parameters Cycle statistical process Maximum number of cyc	LS, PS, PSD, CS, TF, CH 1000, 2000, 10,000 Rectangular, Hanning, Flat-Top (with the /G3 option) 6 100 kS/s (when exceeding 100 kS/s, the sampling rate is resampled at 100 kS/s) Calculation between channels (addition, subtraction, multiplication, division), differentiation (w/ LPF), integration, digital filtering (LPF/HPF/BPF, FIR type, IIR type, variable cutoff frequency) ing range IIR type: 0.2 to 30% of sampling frequency FIR type: 2 to 30% of sampling frequency FIR type: 2 to 30% of sampling frequency fing range IIR type: 0.2 to 30% of sampling frequency fix type: 2 to 30% of sampling trequency fix type: 2 to 30% of sampling trequency for X display only) to waveform parameters asured parameters 24 P-P, Max, Min, High, Low, Avg, Rms, Amp, StdDev, + Oshot, -Oshot, Rise, Fall, Freq, Period, +Duty, + Width, -Width, Pulse Burst1, Burst2, Avg Freq, Avg Period, Delay, Int1TY, Int2TY, Int1XY, Int2XY els 24,000 (tor one parameter) f parameters 24,000 (total measured results)
Number of points Window functions DSP Channel Function DSP channels Maximum sampling rate ¹ Operators Digital filtering cutoff sett Calculation delay When the DSP channel channel is 5 MS/s. Waveform Measurement Cursors Types Horizontal Vertical Marker Degree H&V Automatic measurement Maximum number of me Measured parameters Cycle statistical process Maximum number of cyc Maximum number of cyc	LS, PS, PSD, CS, TF, CH 1000, 2000, 10,000 Rectangular, Hanning, Flat-Top (with the /G3 option) 6 100 kS/s (when exceeding 100 kS/s, the sampling rate is resampled at 100 kS/s) Calculation between channels (addition, subtraction, multiplication, division), differentiation (w/ LPF), integration, digital filtering (LPF/HPF/BPF, FIR type, IIR type, variable cutoff frequency) ting range IIR type: 0.2 to 30% of sampling frequency FIR type: 2.2 to 30% of sampling frequency 4 sampling + digital filtering calculation delay is ON, the maximum sampling rate of the analog mt Functions Two cursors Four markers Cursor measurement on the horizontal axis is displayed in a degree. (for TY display only) (for XY display only) : of waveform parameters asured parameters 24 P-P, Max, Min, High, Low, Avg, Rms, Amp, StdDev, + Width, –Width, Pulse Burst1, Burst2, Avg Freq, Avg Period, Delay, Int1TY, Int2TY, Int1XY, Int2XY des 24,000 (for one parameter) f parameters 24,000 (total measured results) Maximum/minimum/average/standard deviations/ number of samples
Number of points Window functions DSP Channel Function DSP channels Maximum sampling rate ¹ Operators Digital filtering cutoff sett Calculation delay When the DSP channel channel is 5 MS/s. Waveform Measurement Marker Degree H&V Automatic measurement Maximum number of me Measured parameters Cycle statistical process Maximum number of cyc Maximum neasurement	LS, PS, PSD, CS, TF, CH 1000, 2000, 10,000 Rectangular, Hanning, Flat-Top (with the /G3 option) 6 100 kS/s (when exceeding 100 kS/s, the sampling rate is resampled at 100 kS/s) Calculation between channels (addition, subtraction, multiplication, division), differentiation (w/LPF), integration, digital filtering (LPF/HPF/BPF, FIR type, IIR type, variable cutoff frequency) ing range IIR type: 0.2 to 30% of sampling frequency FIR type: 2 to 30% of sampling frequency FIR type: 2 to 30% of sampling trequency FIR type: 2 to 30% of sampling trequency FIR type: 2 to 30% of sampling trequency FIR type: 2 to 30% of sampling trequency for X type: 2 to 30% of sampling trequency two cursors Four markers Cursor measurement on the horizontal axis is displayed in a degree. (for TY display only) (for XY display only) to f waveform parameters asured parameters 24 P-P, Max, Min, High, Low, Avg, Rms, Amp, StdDev, + Oshot, -Oshot, Rise, Fall, Freq, Period, +Duty, + Width, -Width, Pulse Burst1, Burst2, Avg Freq, Avg Period, Delay, Int1TY, Int2TY, Int1XY, Int2XY des 24,000 (tor one parameter) of parameters 24,000 (total measured results) Maximum/minimum/average/standard deviations/ number of samples range 10 MW
Number of points Window functions DSP Channel Function DSP channels Maximum sampling rate ¹ Operators Digital filtering cutoff sett Calculation delay When the DSP channel channel is 5 MS/s. Waveform Measurement Cursors Types Horizontal Vertical Marker Degree H&V Automatic measurement Maximum number of rem Measured parameters Cycle statistical process Maximum number of cyc Maximum total number of Statistical values	LS, PS, PSD, CS, TF, CH 1000, 2000, 10,000 Rectangular, Hanning, Flat-Top (with the /G3 option) 6 100 kS/s (when exceeding 100 kS/s, the sampling rate is resampled at 100 kS/s) Calculation between channels (addition, subtraction, multiplication, division), differentiation (w/ LPF), integration, digital filtering (LPF/HPF/BPF, FIR type, IIR type, variable cutoff frequency) ting range IIR type: 0.2 to 30% of sampling frequency FIR type: 2 to 30% of sampling frequency FIR type: 2 to 30% of sampling requency 4 sampling + digital filtering calculation delay is ON, the maximum sampling rate of the analog th Functions Two cursors Four markers Cursor measurement on the horizontal axis is displayed in a degree. (for TY display only) (for XY display only) of waveform parameters asured parameters 24 P-P, Max, Min, High, Low, Avg, Rms, Amp, StdDev, + Oshot, -Oshot, Rise, Fall, Freq, Period, + Duty, + Width, -Width, Pulse Burst1, Burst2, Avg Freq, Avg Period, Delay, Int1TY, Int2TY, Int1XY, Int2XY des 24,000 (for one parameter) of parameters 24,000 (total measured results) Maximum/minimum/average/standard deviations/ number of samples range 10 MW Edge, voice, auto scroll
Number of points Window functions DSP Channel Function DSP channels Maximum sampling rate ¹ Operators Digital filtering cutoff sett Calculation delay When the DSP channel channel is 5 MS/s. Waveform Measurement Cursors Types Horizontal Vertical Marker Degree H&V Automatic measurement Maximum number of me Measured parameters Cycle statistical process Maximum total number of Statistical values Maximum measurement Search function GO/NO-GO Judgment	LS, PS, PSD, CS, TF, CH 1000, 2000, 10,000 Rectangular, Hanning, Flat-Top (with the /G3 option) 6 100 kS/s (when exceeding 100 kS/s, the sampling rate is resampled at 100 kS/s) Calculation between channels (addition, subtraction, multiplication, division), differentiation (w/LPF), integration, digital filtering (LPF/HPF/BPF, FIR type, IIR type, variable cutoff frequency) ing range IIR type: 0.2 to 30% of sampling frequency FIR type: 2 to 30% of sampling frequency FIR type: 2 to 30% of sampling trequency FIR type: 2 to 30% of sampling trequency FIR type: 2 to 30% of sampling trequency FIR type: 2 to 30% of sampling trequency for X type: 2 to 30% of sampling trequency two cursors Two cursors Four markers Cursor measurement on the horizontal axis is displayed in a degree. (for TY display only) (for XY display only) : of waveform parameters asured parameters 24 P-P, Max, Min, High, Low, Avg, Rms, Amp, StdDev, + Oshot, -Oshot, Rise, Fall, Freq, Period, +Duty, + Width, -Width, Pulse Burst1, Burst2, Avg Freq, Avg Period, Delay, Int1TY, Int2TY, Int1XY, Int2XY des 24,000 (total measured results) Maximum/minimum/average/standard deviations/ number of samples range 10 MW Edge, voice, auto scroll Zone
Number of points Window functions DSP Channel Function DSP channels Maximum sampling rate ¹ Operators Digital filtering cutoff sett Calculation delay When the DSP channel channel is 5 MS/s. Waveform Measurement Cursors Types Horizontal Vertical Marker Degree H&V Automatic measurement Maximum number of rwe Measured parameters Cycle statistical process Maximum number of cyc Maximum measurement Statistical values Maximum measurement Search function GO/NO-GO Judgment Parameter:	LS, PS, PSD, CS, TF, CH 1000, 2000, 10,000 Rectangular, Hanning, Flat-Top (with the /G3 option) 6 100 kS/s (when exceeding 100 kS/s, the sampling rate is resampled at 100 kS/s) Calculation between channels (addition, subtraction, multiplication, division), differentiation (w/ LPF), integration, digital filtering (LPF/HPF/BPF, FIR type, IIR type, variable cutoff frequency) ting range IIR type: 0.2 to 30% of sampling frequency FIR type: 0.2 to 30% of sampling frequency FIR type: 2. to 30% of sampling requency a sampling + digital filtering calculation delay is ON, the maximum sampling rate of the analog th Functions Two cursors Four markers Cursor measurement on the horizontal axis is displayed in a degree. (for TY display only) (for XY display only) : of waveform parameters asured parameters 24 P-P, Max, Min, High, Low, Avg, Rms, Amp, StdDev, + Oshot, -Oshot, Rise, Fall, Freq, Period, + Duty, + Width, -Width, Pulse Burst1, Burst2, Avg Freq, Avg Period, Delay, Int1TY, Int2TY, Int1XY, Int2XY des 24,000 (for one parameter) of parameters 24,000 (total measured results) Maximum/minimum/average/standard deviations/ number of samples range 10 MW Edge, voice, auto scroll Zone Make judgments using combinations of 16 waveform parameters.
Number of points Window functions DSP Channel Function DSP channels Maximum sampling rate ¹ Operators Digital filtering cutoff sett Calculation delay When the DSP channel channel is 5 MS/s. Waveform Measurement Cursors Types Horizontal Vertical Marker Degree H&V Automatic measurement Maximum number of me Measured parameters Cycle statistical process Maximum total number of Statistical values Maximum measurement Search function GO/NO-GO Judgment	LS, PS, PSD, CS, TF, CH 1000, 2000, 10,000 Rectangular, Hanning, Flat-Top (with the /G3 option) 6 100 kS/s (when exceeding 100 kS/s, the sampling rate is resampled at 100 kS/s) Calculation between channels (addition, subtraction, multiplication, division), differentiation (w/LPF), integration, digital filtering (LPF/HPF/BPF, FIR type, IIR type, variable cutoff frequency) ing range IIR type: 0.2 to 30% of sampling frequency FIR type: 2 to 30% of sampling frequency FIR type: 2 to 30% of sampling trequency FIR type: 2 to 30% of sampling trequency FIR type: 2 to 30% of sampling trequency FIR type: 2 to 30% of sampling trequency for X upper 2 to 30% of sampling trequency two cursors Two cursors Four markers Cursor measurement on the horizontal axis is displayed in a degree. (for TY display only) (for XY display only) : of waveform parameters asured parameters 24 P-P, Max, Min, High, Low, Avg, Rms, Amp, StdDev, + Oshot, -Oshot, Rise, Fall, Freq, Period, +Duty, + Width, -Width, Pulse Burst1, Burst2, Avg Freq, Avg Period, Delay, Int1TY, Int2TY, Int1XY, Int2XY des 24,000 (total measured results) Maximum/minimum/average/standard deviations/ number of samples range 10 MW Edge, voice, auto scroll Zone Make judgments using combinations of 16 waveform parameters. Make judgments using combination of up to 6
Number of points Window functions DSP Channel Function DSP channels Maximum sampling rate ¹ Operators Digital filtering cutoff sett Calculation delay When the DSP channel channel is 5 MS/s. Waveform Measurement Cursors Types Horizontal Vertical Marker Degree H&V Automatic measurement Maximum number of cyc Maximum measurement Search function GO/NO-GO Judgment Parameters	LS, PS, PSD, CS, TF, CH 1000, 2000, 10,000 Rectangular, Hanning, Flat-Top (with the /G3 option) 6 100 kS/s (when exceeding 100 kS/s, the sampling rate is resampled at 100 kS/s) Calculation between channels (addition, subtraction, multiplication, division), differentiation (w/ LPF), integration, digital filtering (LPF/HPF/BPF, FIR type, IIR type, variable cutoff frequency) ting range IIR type: 0.2 to 30% of sampling frequency FIR type: 0.2 to 30% of sampling frequency FIR type: 2. to 30% of sampling requency a sampling + digital filtering calculation delay is ON, the maximum sampling rate of the analog th Functions Two cursors Four markers Cursor measurement on the horizontal axis is displayed in a degree. (for TY display only) (for XY display only) : of waveform parameters asured parameters 24 P-P, Max, Min, High, Low, Avg, Rms, Amp, StdDev, + Oshot, -Oshot, Rise, Fall, Freq, Period, + Duty, + Width, -Width, Pulse Burst1, Burst2, Avg Freq, Avg Period, Delay, Int1TY, Int2TY, Int1XY, Int2XY des 24,000 (for one parameter) of parameters 24,000 (total measured results) Maximum/minimum/average/standard deviations/ number of samples range 10 MW Edge, voice, auto scroll Zone Make judgments using combinations of 16 waveform parameters.

	Screen Data O	utput (Pi	rinter)
	Destinations		Select built-in printer, external USB printer, or
	Formats	Normal Long	network printer (with /C10 option) Outputs hard copy of screen shot Zooms displayed waveform along time axis and outputs (The zoom factor differs depending on the time/div.)
	Screen Data O	utput (In	,
_	Destinations	utput (iii	Installed drive (floppy drive, Zip [®] drive, or PC card),
	Formats		external SCSI drive, internal hard drive (with /C8 option), network drive (with /C10 option) PNG, JPEG, BMP, PostScript
	External I/O		
•	LOGIC input sp Input points Maximum samp Compatible prol EXT TRIG IN/E. Connector Input/output leve EXT Clock IN Connector Input level Input frequency	oling rate bes XT TRIG el	8 bits × 2 10 MS/s 8-bit non-isolated (700986), 8-bit isolated (700987)
-	Communication	interface	DSP-CH), up to 500 Hz (for module 701265)
	GO/NO-GO I/O Connector type		GP-IB, USB peripheral equipment jacks (USB keyboards and USB printers), USB (complies with Rev. 1.1, for connection to PC), Ethernet (complies with 100BASE-TX and 10BASE-T; with /C10 option), serial (RS232), and SCSI Modular jack (RJ12)
•	I/O level Probe power ter Maximum numb Compatible prof	er of pro	bbes powered 4 Current probes 700937 (15 Apeak) and 701930
	Maximum numb	er of cur	(150 Arms) rent probes that can be used at one time 4 (for module 700937), 2 (for module 701930)
	Voice Memo Fu	unction	
•	Voice memo		
	Record (roll mo	de) Flexible:	Multiple recording (min. 3 sec up to 100 sec, total
	Save Playback	Fixed:	100 sec) Select from 5 sec \times 20, 10 sec \times 10, 20 sec \times 5, 25 sec \times 4, 50 sec 2, 100 sec \times 1 Save together with waveform data (binary, same file) Voice data loaded on the main unit is outputted from microphone terminal and speaker output terminal (GO/NO-GO)
•	Voice comment Record Save Playback		3 to 100 sec When image saving is executed (separate file) Playback from microphone terminal and speaker output terminal (GO/NO-GO)
	Acquisition Me	morv R	
	Batteries	,	Four AA alkaline dry cells (AA/R6) (JIS and IEC type name: LR6) or four nickel metal-hydride rechargeable batteries
~	Backed up data Backup duration	n (referen	Acquisition memory, waveform data, voice data ace value) ² Approximately 10 hours (with /M3 option)
2.		iuration v	vill vary according to the usage conditions.
	Media Drives		
	Internal media o		Floppy drive, Zip [®] drive, or PC card (choose one), and 20 GB hard drive (with /C8 option)
	General Specif		
	Rated supply vo	oltage	100 to 120 VAC/200 to 240 VAC (automatically switched)
	Rated supply fre Power consume Maximum voltage	d	50/60 Hz Approximately 200 VA-MAX 1500 VAC for one minute across power supply and ground
	Insulating resist	ance	$10 \text{ M}\Omega$ or greater at 500 VDC across power supply
	Exterior		and ground 355 \times 250 \times 180 mm (WHD), excluding knobs and
			protrusions
	Weight Operating temp	erature ra	Approx. 6.6 kg (main unit with full options, including M3, C8, C10, and P4) Approx. 9 kg (main unit and eight 701250 modules) ange 5 to 40°C

For detailed specifications, go to the following URL: http://www.yokogawa.com/tm/Bu/DL750/

Plug-In Module Specifications

$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	s)
A/D conversion resolution 12 bits (150 LSB/div) Isolated unbalanced Frequency range (-3 dB)' DC, up to 3 MHz Input type (10:1) 5 mV/div to 200 V/div (in steps of 1, 2, or 5), (1:1) 5 mV/div to 200 V/div (in steps of 1, 2, or 5) Effective measurement range 20 div (display range: 10 div) Effective measurement range 20 div (display range: 10 div) Effective measurement range 20 div (display range: 10 div) DC offset ± 5 div Maximum input voltage (1 kHz or less) In combination with 700929 (10:1) ² 600 V (DC + ACpeak) Maximum allowable in-phase voltage In combination with 700929 (10:1) ³ 400 V rms (CAT I), 300 Vrms (CAT II) In combination with 7019in steps of 1, 2, or 5+701954 (1:1) ⁹ 400 V rms (CAT I), 300 Vrms (CAT II) Main unit only (1:1) ¹¹ 42 V (DC + ACpeak) (CAT I and CAT II, 30 Vrm Cacuracy' $\pm (0.5\% of 10 div)/^{C}$ (typical value) Gain $\pm (0.02\% of 10 div)/^{C}$ (typical value) Gain $\pm (0.02\% of 10 div)/^{C}$ (typical value) Gain $\pm (0.02\% of 10 div)/^{C}$ (typical value) High-Speed 1 MS/s 16-Bit Isolation Module (701251) Input channels AC DC, GND Maximum sampling rate 1 MS/s A/D conversion resolution 1 MS/s A/D conversion resolution 1 MS/s A/D conversion resolution 1 MS/s A/D conversion resolution 1 M/div to 200 V/div (in steps of 1, 2, or 5) Maximum input voltage In combination with 700929 (10:1) ³ Maximum input voltage In combination with 700929 (10:1) ³ Maximum allowable in-phase voltage In combination with 709929 (10:1) ³ 400 Vrms (CAT I), 300 Vrms (CAT II) Main unit only (1:1) ¹¹ 42 V (DC + ACpeak) Maximum allowable in-phase voltage In combination with 709929 (10:1) ³ 400 Vrms (CAT I), 300 Vrms (CAT II) Main unit only (1:1) ¹¹ 40 V (DC + ACpeak) (CAT I and CAT II, 30 Vrm DC accuracy ¹ 5 mV/div to 20 V/div $\pm (0.25\% of 10 div)$ 2 mV/div $\pm (0.5\% of 10 div)$ 1 mV/div to 20 V/div $\pm (0.25\% of 10 div)$ 2 mV/div to 20 V/div $\pm (0.25\% of 10 div)$ 2 mV/div to 20 V/div $\pm (0.25\% of 10 div)/^{C}$ (typical value) 1 mV/div to 20 V/div:	s)
Frequency range (-3 dB)' DC, up to 3 MHz Input range (10:1) 50 mV/div to 200 V/div (in steps of 1, 2, or 5), (1:1) 5 mV/div to 20 V/div (in steps of 1, 2, or 5) Effective measurement range 20 div (display range: 10 div) DC offset ± 5 div Maximum input voltage (1 kHz or less) In combination with 700929 (10:1) ² 600 V (DC + ACpeak) Direct input (1:1) ^{6,10} 250 V (DC + ACpeak) Maximum allowable in-phase voltage In combination with 7019 in steps of 1, 2, or 5+701954 (1:1) ⁹ 400 Vrms (CAT 1), 300 Vrms (CAT II) Main unit only (1:1) ¹¹ 42 V (DC + ACpeak) (CAT I and CAT II, 30 Vrm DC accuracy' $\pm (0.5\% \text{ of } 10 \text{ div})/\text{rs}$ (CAT I), 300 Vrms (CAT II) Input impedance 1 MΩ2 ± 1%, approx. 35 pF Connector type Isolation type BNC connector Input filter OFF, 500 Hz, 5 kHz, 500 kHz, 500 kHz Temperature coefficient Zero point $\pm (0.05\% \text{ of } 10 \text{ div})/^{\infty}$ (typical value) Gain $\pm (0.02\% \text{ of } 10 \text{ div})/^{\infty}$ (typical value) Maximum ampling rate 1 MS/s AD conversion resolution 16 bits (2400 LSB/div) Input type Isolated unbalanced Frequency range (-3 dB)' DC, up to 300 kHz (20 V/div to 5 mV/div) Input type Isolated unbalanced In combination with 700929 (10:1) ² Maximum input voltage (1 kHz or less) In combination with 700929 (10:1) ² Maximum allowable in-phase voltage In combination with 700929 (10:1) ³ 400 Vrms (CAT I), 300 Vrms (CAT II) Maximum allowable in-phase voltage In combination with 700929 (10:1) ³ Maximum allowable in-phase voltage In combination with 701954 (1:1) ⁹ 400 Vrms (CAT I), 300 Vrms (CAT II) In combination with 701929 (10:1) ³ Maximum allowable in-phase voltage In combination with 701929 (10:1) ³ 5 mV/div to 20 V/div $\pm (0.25\% \text{ of } 10 \text{ div})^{/C}$ (typical value) $\frac{10 V/div}{10 V/div} \pm (0.25\% \text{ of } 10 \text{ div})$ (CAT II) Main unit only (1:1) ¹¹ 42 V (DC + ACpeak) (CAT I and CAT II, 30 Vrm DC accuracy 5 mV/div to 20 V/div $\pm (0.25\% \text{ of } 10 \text{ div})^{/C}$ (typical value) $\frac{10 V/div}{10 VViv} \pm (0.25\% of$	s)
Input range (10:1) 50 mV/div to 200 V/div (in steps of 1, 2, or 5), (1:1) 5 mV/div to 200 V/div (in steps of 1, 2, or 5) Effective measurement range 20 div (display range: 10 div) ± 5 div Maximum input voltage (1 kHz or less) In combination with 700929 (10:1) ² 600 V (DC + ACpeak) Direct input (1:1) ^{6,10} In combination with 700929 (10:1) ³ 400 Vrms (CAT I), 300 Vrms (CAT II) In combination with 700929 (10:1) ³ 400 Vrms (CAT I), 300 Vrms (CAT II) In combination with 7019 steps of 1, 2, or 5+701954 (1:1) ⁹ 400 Vrms (CAT I), 300 Vrms (CAT II) In combination with 7019 steps of 1, 2, or 5+701954 (1:1) ⁹ 400 Vrms (CAT I), 300 Vrms (CAT II) In combination with 7019 steps of 1, 2, or 5+701954 (1:1) ⁹ 400 Vrms (CAT I), 300 Vrms (CAT II) Nain unit only (1:1) ¹¹ 42 V (DC + ACpeak) (CAT I and CAT II, 30 Vrm DC accuracy ¹ ±(0.5% of 10 div)/ ^o C (typical value) Gain ±(0.02% of 10 div)/ ^o C (typical value) Gain ±(0.02% of 10 div)/ ^o C (typical value) High-Speed 1 MS/s 16-Bit Isolation Module (701251) Input channels 2 Frequency range (-3 dB) ¹ DC, up to 300 kHz (20 V/div to 5 mV/div) Input trange (10:1) 10 mV/div to 200 V/div (in steps of 1, 2, or 5) (1:1) 10 mV/div to 200 V/div (in steps of 1, 2, or 5) (1:1) 10 mV/div to 200 V/div (in steps of 1, 2, or 5) Maximum input voltage (1 kHz or less) In combination with 700929 (10:1) ³ 400 Vrms (CAT I), 300 Vrms (CAT II) Main unit only (1:1) ¹¹ 400 Vrms (CAT I), 300 Vrms (CAT II) Main unit only (1:1) ¹¹ 400 Vrms (CAT I), 300 Vrms (CAT II) Main unit only (1:1) ¹¹ 400 Vrms (CAT I), 300 Vrms (CAT II) Main unit only (1:1) ¹¹ 400 Vrms (CAT I), 300 Vrms (CAT II) Main unit only (1:1) ¹¹ 400 Vrms (CAT I), 300 Vrms (CAT II) Main unit only (1:1) ¹¹ 400 Vrms (CAT I), 300 Vrms (CAT II) Main unit only (1:1) ¹¹ 40 V (DC + ACpeak) (CAT I and CAT II, 30 Vrm CC accuracy ¹ 5 mV/div to 20 V/div ±(0.25% of 10 div)) 1 mV/div ±(0.5% of 10 div) 2 mV/div ±(0.5% of 10 div)) 1 mV/div ±(0.5% of 10 div)/ ^o C (typical value)	s)
Effective measurement range 20 div (display range: 10 div) DC offset ± 5 div Maximum input voltage (1 kHz or less) In combination with 700929 (10:1) ² 600 V (DC + ACpeak) Direct input (1:1) ^{6,10} 400 V rms (CAT I), 300 V rms (CAT II) In combination with 700929 (10:1) ³ 400 V rms (CAT I), 300 V rms (CAT II) In combination with 7019 is teps of 1, 2, or 5+701954 (1:1) ⁹ 400 V rms (CAT I), 300 V rms (CAT II) Main unit only (1:1) ¹¹ $42 V (DC + ACpeak) (CAT I and CAT II, 30 V rms Caccuracy1 \pm (0.5\% of 10 div)Input impedance 1 MS2 ± 1%, approx. 35 pFConnector type Isolation type BNC connectorInput filter OFF, 500 Hz, 5 kHz, 50 kHz, 500 kHzTemperature coefficientZero point \pm (0.05\% of 10 div)/^{\circ}C (typical value)Gain \pm (0.02\% of 10 div)/^{\circ}C (typical value)Maximum sampling rate 1 MS/sAD conversion resolution 16 bits (2400 LSB/div)Input touplings AC, DC, GNDMaximum input voltage (1 kHz or less)In combination with 700929 (10:1)2600 V (DC + ACpeak)Maximum allowable in-phase voltageIn combination with 700929 (10:1)2600 V (DC + ACpeak)Maximum allowable in-phase voltageIn combination with 700929 (10:1)2600 V (DC + ACpeak)Maximum allowable in-phase voltageIn combination with 700929 (10:1)2400 V rms (CAT I), 300 V rms (CAT II)Main unit only (1:1)1142 V (DC + ACpeak) (CAT I and CAT II, 30 V rmsCAT II)Main unit only (1:1)1142 V (DC + ACpeak) (CAT I and CAT II, 30 V rmsCAT II)Main unit only (1:1)1142 V (DC + ACpeak) (CAT I and CAT II, 30 V rmsCAT II)Main unit only (1:1)1142 V (DC + ACpeak) (CAT I I and CAT II, 30 V rmsCAT II)Main unit only (1:1)1142 V (DC + ACpeak) (CAT I I and CAT II, 30 V rmsCAT II)Main unit only (1:1)1142 V (DC + ACpeak) (CAT I I)Main unit only (1:1)1142 V (DC + ACpeak) (CAT I I and CAT II, 30 V rmsCaccuracy15 mV/div to 20 V/div \pm (0.35\% of 10 div)\pm mV/div \pm (0.5\% of 10 div)2 mV/div \pm (0.5\% of 10 div)2 mV/div \pm (0.5\% of 10 div)2 mV/div \pm (0.5\% of 1$	s)
Maximum input voltage (1 kHz or less) In combination with 700929 (10:1) ² 600 V (DC + ACpeak) Direct input (1:1) ^{6:10} 400 Vrms (CAT I), 300 Vrms (CAT II) In combination with 700929 (10:1) ³ 400 Vrms (CAT I), 300 Vrms (CAT II) In combination with 7019in steps of 1, 2, or 5+701954 (1:1) ⁹ 400 Vrms (CAT I), 300 Vrms (CAT II) Main unit only (1:1) ¹¹ 42 V (DC + ACpeak) (CAT I and CAT II, 30 Vrm C accuracy ± (0.5% of 10 div), 300 Vrms (CAT II) Main unit only (1:1) ¹¹ 42 U (DC + ACpeak) (CAT I and CAT II, 30 Vrm C accuracy ± (0.5% of 10 div), 300 Vrms (CAT II) Main unit only (1:1) ¹¹ 42 V (DC + ACpeak) (CAT I and CAT II, 30 Vrm C accuracy ± (0.05% of 10 div)/°C (typical value) Gain ± (0.02% of 10 div)/°C (typical value) Gain ± (0.02% of 10 div)/°C (typical value) Maximum sampling rate 1 MS/s A/D conversion resolution 16 bits (2400 LSB/div) Input touplings AC, DC, GND Maximum sampling rate 1 MS/s A/D conversion resolution 16 bits (2400 LSB/div) Input type Isolated unbalanced Frequency range (-3 dB)' DC, up to 300 kHz (20 V/div to 5 mV/div) Input type 100 V/div to 200 V/div (in steps of 1, 2, or 5) Maximum input voltage (1 kHz or less) In combination with 700929 (10:1) ² 600 V (DC + ACpeak) Maximum allowable in-phase voltage In combination with 700929 (10:1) ³ 400 Vrms (CAT I), 300 Vrms (CAT II) Main unit only (1:1) ¹¹ 42 V (DC + ACpeak) (CAT I and CAT II, 30 Vrm DC accuracy' 5 mV/div to 20 V/div ± (0.3% of 10 div) 1 mV/div ± (0.3% of 10 div) 1 mV/div ± (0.3% of 10 div) 1 mV/div ± (0.3% of 10 div) 2 mV/div to 20 V/div ± (0.3% of 10 div) 1 mV/div ± (0.3% of 10 div) 2 mV/div ± (0.3% of 10 div) 2 mV/div ± (0.3% of 10 div) 1 mV/div ± (0.05% of 10 div)/°C (typical value) Gain 1 mV/div to 20 V/div ± (0.02% of 10 div)/°C (typical value) Maximum sampling rate 0 MS/s	s)
In combination with 700929 (10:1) ² 600 V (DC + ACpeak) Direct input (1:1) ^{8.10} 10 combination with 700929 (10:1) ³ 400 Vrms (CAT I), 300 Vrms (CAT II) In combination with 701919 (1:1) ¹¹ 400 Vrms (CAT I), 300 Vrms (CAT II) Main unit only (1:1) ¹¹ 42 V (DC + ACpeak) (CAT I and CAT II, 30 Vrm CCaccuracy ¹ 12 (0.5% of 10 div) Input impedance Connector type Isolation type BNC connector Input filter CFF, 500 Hz, 5 kHz, 500 kHz Temperature coefficient Zero point $\pm (0.05\% of 10 div)/^{C}$ (typical value) Gain $\pm (0.02\% of 10 div)/^{C}$ (typical value) High-Speed 1 MS/s 16-Bit Isolation Module (701251) Input couplings AC, DC, GND Maximum sampling rate (10:1) 10 mV/div to 200 V/div (in steps of 1, 2, or 5) (1:1) 1 mV/div to 200 V/div (in steps of 1, 2, or 5) (1:1) 1 mV/div to 200 V/div (in steps of 1, 2, or 5) (1:1) 10 mV/div to 200 V/div (in steps of 1, 2, or 5) (1:1) 10 mV/div to 200 V/div (in steps of 1, 2, or 5) Maximum input voltage (1 kHz or less) In combination with 700929 (10:1) ² 600 V (DC + ACpeak) Maximum allowable in-phase voltage In combination with 700929 (10:1) ³ 400 Vrms (CAT I), 300 Vrms (CAT II) Maximum input voltage (1 kHz or less) In combination with 700929 (10:1) ³ 400 Vrms (CAT I), 300 Vrms (CAT II) In combination with 700929 (10:1) ³ 400 Vrms (CAT I), 300 Vrms (CAT II) Main unit only (1:1) ¹¹ 42 V (DC + ACpeak) (CAT I and CAT II, 30 Vrm DC accuracy ¹ 5 mV/div to 20 V/div $\pm (0.25\% of 10 div)$ 1 mV/div to 20 V/div $\pm (0.25\% of 10 div)$ 1 mV/div $\pm (0.5\% of 10 div)$ 1 mV/div $\pm (0.5\% of 10 div)$ 1 mV/div $\pm (0.5\% of 10 div)$ 1 mV/div $\pm (0.05\% of 10 div)$ 5 mV/div to 20 V/div $\pm (0.05\% of 10 div)/^{C}$ (typical value) Gain 1 mV/div to 20 V/div: $\pm (0.02\% of 10 div)/^{C}$ (typical value) Gain 1 mV/div to 20 V/div $\pm (0.25\% of 10 div)/^{C}$ (typical value) Maximum sampling rate 10 MS/s	s)
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$\label{eq:constraint} \begin{array}{c} 2 \\ \text{Input couplings} & AC, DC, GND \\ \text{Maximum sampling rate} & 1 \text{MS/s} \\ AD conversion resolution \\ 16 \text{bits} (2400 \text{LSB/div}) \\ \text{Isolated unbalanced} \\ \text{Frequency range} (-3 \text{dB})^1 & DC, up to 300 \text{KHz} (20 \text{V/div to 5 mV/div}) \\ \text{Input type} & \text{Isolated unbalanced} \\ \text{Frequency range} (-3 \text{dB})^1 & DC, up to 300 \text{KHz} (20 \text{V/div to 5 mV/div}) \\ \text{Input range} & (10:1) & 10 \text{mV/div to 200 V/div} (in steps of 1, 2, or 5) \\ (1:1) & 1 \text{mV/div to 200 V/div} (in steps of 1, 2, or 5) \\ \text{Maximum input voltage} (1 \text{kHz or less}) \\ \text{In combination with 700929} (10:1)^2 \\ \text{600 V (DC + ACpeak)} \\ \text{Maximum allowable in-phase voltage} \\ \text{In combination with 700929} (10:1)^3 \\ \text{400 Vrms} (CAT I), 300 \text{Vrms} (CAT II) \\ \text{Maxim uni tonly (1:1)} & 42 \text{V} (DC + ACpeak) \\ \text{Main unit only (1:1)} & 42 \text{V} (DC + ACpeak) \\ \text{Main unit only (1:1)} & 42 \text{V} (DC + ACpeak) \\ \text{Main unit only (1:1)} & 42 \text{V} (DC + ACpeak) \\ \text{Main unit only (1:1)} & 42 \text{V} (DC + ACpeak) \\ \text{Maximum planex} (CAT I), 300 \text{Vrms} (CAT II) \\ \text{Main unit only (1:1)} & 42 \text{V} (DC + ACpeak) \\ \text{Maximum planex} (CAT I) & 300 \text{Vrms} (CAT II) \\ \text{Main unit only (1:1)} & 42 \text{V} (DC + ACpeak) \\ \text{Maximum planex} & 10 \text{M}^2 \text{t}^3, \text{aprox}.35 \text{pF} \\ \text{Connector type} & \text{Isolated type BNC connector} \\ \text{Input filter} & \text{Cornector type} & \text{Isolated type BNC connector} \\ \text{OFF, 400 Hz, 4 \text{kHz}, 40 \text{kHz} \\ \text{Temperature coefficient} \\ \text{Zero point} & 5 \text{mV/div} to 20 \text{V/div} \pm (0.02\% \text{of 10 div})^{\circ} C (\text{typical value}) \\ 1 \text{mV/div} \pm (0.10\% \text{of 10 div})^{\circ} C (\text{typical value}) \\ 1 \text{mV/div} \pm (0.10\% \text{of 10 div})^{\circ} C (\text{typical value}) \\ 1 \text{mV/div} \pm (0.02\% \text{of 10 div})^{\circ} C (\text{typical value}) \\ 1 \text{mV/div} \pm (0.02\% \text{of 10 div})^{\circ} C (\text{typical value}) \\ 1 \text{mV/div} \pm (0.02\% \text{of 10 div})^{\circ} C (\text{typical value}) \\ 1 \text{mV/div} \pm (0.02\% \text{of 10 div})^{\circ} C (\text{typical value}) \\ 1 \text{mV/div} \pm (0$	
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Input impedance 1 MΩ ± 1%, appřox. 35 pF Connector type Isolated type BNC connector Input filter OFF, 400 Hz, 4 kHz, 40 kHz Temperature coefficient 2 mV/div: ±(0.02% of 10 div)/°C (typical value) Yerror 1 mV/div: ±(0.10% of 10 div)/°C (typical value) Gain 1 mV/div: ±(0.10% of 10 div)/°C (typical value) Input filter 1 mV/div: ±(0.02% of 10 div)/°C (typical value) Gain 1 mV/div: ±(0.02% of 10 div)/°C (typical value) Input channels 2 Input couplings AC, DC, GND Maximum sampling rate 10 MS/s	
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Gain 1 mV/div to 20 V/div: ±(0.02% of 10 div)/°C (typical v High-Speed 10 MS/s 12-Bit Non-Isolation Module (701255) Input channels 2 Input couplings AC, DC, GND Maximum sampling rate 10 MS/s	aiue)
Angle Speed 10 MS/s 12-Bit Non-Isolation Module (701255) Input channels 2 Input couplings AC, DC, GND Maximum sampling rate 10 MS/s	alue)
Input couplings AC, DC, GND Maximum sampling rate 10 MS/s	,
Maximum sampling rate 10 MS/s	
A/D conversion resolution 12 bits (150 LSB/div)	
Input type Non-isolated unbalanced	
Frequency range (–3 dB) ¹ DC, up to 3 MHz	
Input range (10:1) 50 mV/div to 200 V/div (in steps of 1, 2, or 5) (1:1) 5 mV/div to 20 V/div (in steps of 1, 2, or 5)	
Effective measurement range 20 div (display range 10 div) DC offset ±5 div	
Maximum input voltage (1 kHz or less)	
In combination with 701940 (10:1) 600 V (DC + ACpeak)	
Direct input (1:1) 250 V (DC + ACpeak) DC accuracy1 ±(0.5% of 10 div)	
Input impedance 1 M Ω ± 1%, approx. 35 pF	
Connector type Metal type BNC connector Input filter OFF, 500 Hz, 5 kHz, 50 kHz, 500 kHz	
Temperature coefficient Zero point ±(0.05% of 10 div)/°C (typical value)	
Gain ±(0.02% of 10 div)/°C (typical value)	
Adaptive passive probe (10:1) 701940 High-Voltage 100 kS/s 16-Bit Isolation Module (with RMS) (701260)	
Input channels 2	
Input couplings AC, DC, GND, AC-RMS, DC-RMS Maximum sampling rate 100 kS/s	
A/D conversion resolution 16 bits (2400 LSB/div)	
Input type Isolated unbalanced Frequency range (-3 dB) ¹	
Waveform measurement mode DC, up to 40 kHz	
RMS measurement mode DC, 40 Hz to 10 kHz	
Input range (10:1) 200 mV/div to 2000 V/div (in steps of 1, 2, or 5) (1:1) 20 mV/div to 200 V/div (in steps of 1, 2, or 5)	
Effective measurement range 20 div (display range 10 div) DC offset ±5 div	
Maximum input voltage (1 kHz or less)	
In combination with 700929 (10:1) ² 1000 V (DC + ACpeak)	
In combination with 701901+701954 (1:1) **** 850 V (DC + ACpeak)	
Maximum allowable in-phase voltage	
In combination with 700929 (10:1) H side: 1000 Vrms (CAT II) ⁴ , L side: 400 Vrms (CAT	

In combination with 701901+701954 (1:1) H side: 700 Vrms (CAT II) ⁷, L side: 400 Vrms (CAT II) ⁸ Direct input (when using a cable which doesn't comply with the safety standard) H/L sides: 30 Vrms (42 V DC + ACpeak)¹¹ DC accuracy (waveform measurement mode)¹ ±(0.25% of 10 div) DC accuracy (RMS measurement mode) ±(1.0% of 10 div) AC accuracy (RMS measurement mode) AC accuracy (RMS measurement mode) Sine wave input $\pm (1.5\% \text{ of } 10 \text{ div})$ Crest factor of 2 or less $\pm (2.0\% \text{ of } 10 \text{ div})$ Crest factor of 3 or less $\pm (3.0\% \text{ of } 10 \text{ div})$ Input impedance 1 M $\Omega \pm 1\%$, approx. 35 pF Connector type Isolated type BNC connector Input filter OFF, 100 Hz, 1 kHz, 10 kHz Input impedance Connector type Input filter Temperature coefficient (waveform measurement mode) Zero point ±(0.02% of 10 div)/°C (typical value) Gain ±(0.02% of 10 div)/°C (typical value) Response time (RMS mode) Rise (0 to 90% of 10 div) 100 ms (typical) Fall (100 to 10% of 10 div) 250 ms (typical) Crest factor (only at RMS measurement) 3 or less * Please use 701901 (1:1 safety adaptor lead) or 700929 (10:1 safety probe), which complies with the safety standard, for high-voltage input. * It is very dangerous to use cables that do not comply with the safety standard. Temperature/High-Precision Voltage Module (701265) Input channels Input couplings TC (thermocouple), Input type Isolated unbalanced Applicable sensors (input coupling: TC) K, E, J, T, L, U, N, R, S, B, W, iron-doped gold/chromel 500 Hz DC up to 100 Hz Trequency range (-3 dB)¹ DC, up to 100 Hz Voltage accuracy¹ (at voltage mode) $\pm (0.08\% \text{ of } 10 \text{ div} + 2 \,\mu\text{V})$ Temperature measurement accuracy Type K Measured range Accuracy -200°C to 1300°C ±(0.1% of reading + 1.5°C) Е –200°C to 800°C except -200 to 0°C J -200°C to 1100°C ±(0.2% of reading + 1.5°C) -200°C to 400°C Т -200°C to 900°C Т -200°C to 400°C υ 0°C to 1300°C N ±(0.1% of reading + 3°C) R, S 0°C to 1700°C except 0 to 200°C: ±8°C 200 to 800°C: ±5°C B 0°C to 1800°C ±(0.1% of reading + 2°C), except 400 to 700°C: +8°C Effective range: 400 to 1800°C W/ 0°C to 2300°C ±(0.1% of reading + 3°C) 0 to 50 K: ±4 K Iron-doped gold/chrome 0 to 300 K 50 to 300 K: ±2.5 K Maximum input voltage (1 kHz or less) 42 V (DC + ACpeak) (CAT I and CAT II, 30 Vrms) Input range (for 10 div display) $100 \,\mu$ V/div to 10 V/div (in steps of 1, 2, or 5) Binding post Approx. 1 MΩ Input connector Input impedance OFF, 2 Hz, 8 Hz, 30 Hz Input filter Input filter UFF, 2 + 12, 6 + Strain Module (NDIS) (701270) Input channels DC bridge input (automatic balancing), balanced differential input, DC amplifier (floating) Input types omerential input, bC ampliner (itoating) Electronic auto-balance ±10,000 μSTR (1 gauge method) Select from 2 V, 5 V, or 10 V 120 to 1000 Ω (bridge voltage of 2 V) 350 to 1000 Ω (bridge voltage of 2/5/10 V) 1.90 to 2.20 (variable in steps of 0.01) 16 bits (4800 LSB/div: Upper=+FS, Lower=-FS) 100 kS/c Automatic balancing method Automatic balancing method Automatic balancing range Bridge voltages Gauge resistances Gauge rate A/D resolution 100 kS/s DC, up to 20 kHz \pm (0.5% of FS + 5 µSTR) Maximum sampling rate Frequency range (-3 dB)¹ DC accuracy¹ \pm (0.5% of FS Measurement range/measurable range Measurable range (-FS to +FS) Measurement range (FS) -500 µSTR to 500 µSTR 500 µSTR 1000 µSTR -1000 µSTR to 1000 µSTR -2000 µSTR to 2000 µSTR 2000 µSTR . 5000 μSTR -5000 μSTR to 5000 μSTR 10,000 µSTR –10,000 μSTR to 10,000 μSTR 20,000 µSTR -20,000 µSTR to 20,000 µSTR mV/V range support mV/V range = $0.5 \times (\mu STR range/1000)$ Maximum allowable input voltage (1 kHz or less) 10 V (DC + ACpeak)Maximum allowable in-phase voltage 42 V (DC + ACpeak) (CAT I and CAT II, 30 Vrms) Temperature coefficient

Plug-In Module Specifications



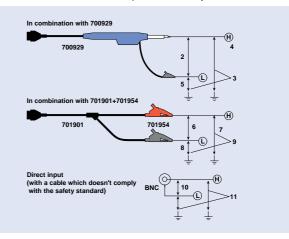
Strain Module (DSUB, Shunt-cal) (701271)

Strain Module (DSUB, SI	nunt-cal) (701271)				
Input channels Input types Automatic balancing method Automatic balancing range Bridge voltages Gauge resistances Gauge rate A/D resolution Maximum sampling rate Frequency range (–3 dB)' DC accuracy' Measurement range/meas	2 DC bridge input (automatic balancing), balanced differential input, DC amplifier (floating) Electronic auto-balance $\pm 10,000 \ \mu$ STR (1 gauge method) Select from 2 V, 5 V, or 10 V 120 to 1000 Ω (bridge voltage of 2 V) 350 to 1000 Ω (bridge voltage of 2/5/10 V) 1.90 to 2.20 (variable in steps of 0.01) 16 bits (4800 LSB/div: Upper=+FS, Lower=–FS) 100 kS/s DC, up to 20 kHz $\pm (0.5\% \ of FS + 5 \ \mu$ STR) surable range				
Measurement					
500 μSTR	–500 μSTR to 500 μSTR				
1000 μSTR	-1000 μSTR to 1000 μSTR				
2000 μSTR	-2000 μSTR to 2000 μSTR				
5000 μSTR	–5000 μSTR to 5000 μSTR				
10,000 μSTR	-10,000 μSTR to 10,000 μSTR				
<u>20,000 μSTR</u>					
mV/V range support Maximum allowable input Maximum allowable in-pha	10 V (DC + ACpeak) ase voltage				
Temperature coefficient	42 V (DC + ACpeak) (CAT I and CAT II, 30 Vrms)				
Gain Internal filter Input connector Accessory (a set of conne	\pm 5 μSTR/°C (typical value) \pm (0.02% of FS)/°C (typical value) OFF, 1 kHz, 100 Hz, 10 Hz DSUB ctor shell for solder connection) 2 DSUB connectors ad (DSUB, Shunt-cal) (sold separately) 701957 (bridge resistance of 120 Ω) (w/ 5 m cable) 701958 (bridge resistance of 350 Ω) (w/ 5 m cable)				
High-Speed Logic Probe (700986)					

Number of inputs	8
Input types	Non-isolated (common ground for all bits; logic module
	and bits share common ground)
Maximum input voltage (1	kHz or less) (between probe tip and case ground)
	42 V (DC +ACpeak) (CAT I and II, 30 Vrms)
Response time	1 µS or less
Input impedance	Approximately 100 kΩ
Threshold level	Approximately 1.4 V

Isolated Logic Probe (700987)

Number of inputs Input types	8 Isolated (all individual bits are isolated)
Input connector Input switching capability	Safety connector (banana plug) \times 8 AC/DC input switching for each bit
	H/L detection for 10 V DC to 250 V DC H/L detection (50/60 Hz) for 80 V AC to 250 V AC
Threshold levels	
	6 V DC ± 50% 50 V AC ± 50%
Response times	
	1 ms or less
	20 ms or less
Maximum input voltage (1	
	(between H and L of each bit) 250 Vrms (CAT I and II)
Maximum allowable in-pha	ase voltage 250 Vrms (CAT I and II)
Maximum allowable voltag	e between bits 250 Vrms (CAT I and II)
Input impedance	Approximately 100 kΩ
	conditions (ambient temperature of $23^{\circ}C \pm 5^{\circ}C$, ambient %; after calibration following 30- minute warmup period)
 Does not include reference 	e contact compensation accuracy.



▲Warning Do not exceed the maximum input voltage, withstand voltage, or surge current. In order to prevent electric shock, be sure to ground the main unit. In order to prevent electric shock, be sure to tighten the module's screws. Electrical protective functions and mechanical protective functions will not be effective.

Accessories



O1280 Frequency Module Frequency Measurement Section	
Input channels	2
Data update rate	25 kHz (40 μs) 0.01 Hz–200 kHz
Measurement range (frequency)	0.1 Hz/div-50 kHz/div
Highest measurement resolution	50 ns (20 MHz)
Input Section	
Compatible input signals	Encoder pulse input of up to ±42 V, Electromagnetic pickup input ⁶ AC power input up to 300 Vrms (700929 Isolation Probe required)
Input type	Isolated, unbalanced
Input coupling	AC,DC
Input voltage (1:1)	±1 V–±50 V (6 ranges, 1-2-5 steps) ±10 V–±500 V (6 ranges, 1-2-5 steps)
(10:1) Max input voltage (1 kHz or less)	±10 v-±500 v (6 langes, 1-2-5 steps)
When combined with 700929 (10:1) ²	420 V (DC+ACpeak)
Direct input (1:1) 10	42 V (DC+ACpeak)
Max allowable common mode voltage When combined with 700929 (10:1) ³	300 Vrms (CAT II)
Direct input (1:1) 11	42 V (DC+ACpeak) 30 Vrms (CAT II)
Input impedance:	42 V (DC+ACpeak) 30 Vrms (CAT II) 1 MΩ±1%, approx. 35 pF
Connector type	Isolated BNC connector OFF/100 Hz/1 KHz/10 KHz/100 KHz
Input filters Input pullup function (ON/OFF)	Supports open collector, mechanical contact output, 4.7 KΩ(+5 V)
Input chatter suppression (ON/OFF)	Setting range 1 ms-1000 ms
Comparator section Presets	Logic (5 V/3 V/12 V/24 V), electromagnetic pickup, zero-cross,
Threshold range	pullup (5 V), AC100 V, AC200 V, user-defined ±FS range, resolution in units of 1%
Hysteresis	±1%, ±2.5%, or ±5% of FS
LED display (each CH) ACT (green)	Operational status (illuminates during pulse input)
OVER (red)	Overdrive status (illuminates during an input overrange)
Compatible probes/cables	(10:1 probe) 700929/701940 (1:1 cable) 366926
Measurement Function Details Measurable items	Frequency (Hz), rpm, rps, Period (sec), Duty (%), Power supply
	freq. (Hz), Pulse width (sec), Pulse integration, Velocity
Effective measurement range	20 div (10 div display range)
Resolution of measured data Measurement items and ranges	16 bit (2400 LSB/div)
Measured Item	Measurement Range Range
Frequency (Hz)	0.01 Hz–200 kHz 0.1 Hz/div–50 kHz/div
rpm	0.01 rpm–100,000 rpm 0.1 rpm/div–10,000 rpm/div
rps	0.001 rps-2000 rps 0.01 rps/div-200 rps/div
Period (sec)	5 µs–50 s 10 µs/div–5 s/div 0%–100% 1%/div–20%/div
Duty (%) Power supply freg (Hz)	0%–100% 1%/div–20%/div (50 Hz, 60 Hz, 400 Hz)±20 Hz 0.1 Hz/div–2 Hz/div
Pulse width (sec)	2 μs-50 s 10 μs/div-5 s/div
Pulse integration	up to 2×10 ⁹ count 100×10 ⁻²¹ /div–500×10 ¹⁸ /div
Velocity Auxiliary Measurement Functions	Same as freq. (can be converted to km/h and other units)
Smoothing Filter	Apply moving average to smooth stair step shaped waveforms.
(moving average)	Moving average constant is specified from 0.2 ms to 1000 msec (moving average constant=specified time +40 μ s) This reduces jitter and increases the resolution.
Pulse Average Function	Measure the specified number of pulses at once, and specify 1 to
-	4096 pulses for the average value output mode. This has the exact
	same effect as the smoothing filter, but averaging can be performed at the pulse interval. Even if encoder gaps are unequal, you can
	measure pulses together and average them.
Deceleration Prediction	A measuring function that automatically compensates for the lack of
(Braking Applications)	encoder pulse information during deceleration and hypothesizes a
	deceleration curve.
	Predicts stop from a specified time after pulse stop
Stop Prediction	
(Braking Applications)	(set up to 10 stages).
	Set an observational center, then zoom and display surrounding
(Braking Applications)	Set an observational center, then zoom and display surrounding area (for fluctuation observation)
(Braking Applications) ■ Offset Observation Function	Set an observational center, then zoom and display surrounding
(Braking Applications) ■ Offset Observation Function Measurement Accuracy ^{1 5}	Set an observational center, then zoom and display surrounding area (for fluctuation observation) Offset setting range = (1 div \times 1000)
(Braking Applications) Offset Observation Function Measurement Accuracy 1 s Frequency/Revolution/Velocity Measure Measurement accuracy	Set an observational center, then zoom and display surrounding area (for fluctuation observation) Offset setting range = (1 div \times 1000) ments \pm (0.05% of 10 div + accuracy depending on the input frequency)
(Braking Applications) Offset Observation Function Measurement Accuracy 1 5 Frequency/Revolution/Velocity Measure	Set an observational center, then zoom and display surrounding area (for fluctuation observation) Offset setting range = (1 div × 1000) ments \pm (0.05% of 10 div + accuracy depending on the input frequency) 1 Hz–2 kHz: 0.05% of input waveform freq +1 mHz
(Braking Applications) Offset Observation Function Measurement Accuracy 1 s Frequency/Revolution/Velocity Measure Measurement accuracy	Set an observational center, then zoom and display surrounding area (for fluctuation observation) Offset setting range = (1 div × 1000) ments ±(0.05% of 10 div + accuracy depending on the input frequency) 1 Hz-2 kHz=10 kHz: 0.1% of input waveform freq +1 mHz 2 kHz=10 kHz:
(Braking Applications) Offset Observation Function Measurement Accuracy 1 s Frequency/Revolution/Velocity Measure Measurement accuracy	Set an observational center, then zoom and display surrounding area (for fluctuation observation) Offset setting range = (1 div × 1000) ments ±(0.05% of 10 div + accuracy depending on the input frequency) 1 Hz-2 kHz: 0.05% of input waveform freq +1 mHz 2 kHz-10 kHz: 0.1% of input waveform freq 10 kHz-20 kHz 0.3% of input waveform freq
(Braking Applications) Offset Observation Function Measurement Accuracy 1 s Frequency/Revolution/Velocity Measure Measurement accuracy Accuracy depending on the input frequency	Set an observational center, then zoom and display surrounding area (for fluctuation observation) Offset setting range = (1 div × 1000) ments ±(0.05% of 10 div + accuracy depending on the input frequency) 1 Hz-2 kHz: 0.05% of input waveform freq +1 mHz 2 kHz-10 kHz: 0.1% of input waveform freq
(Braking Applications) Offset Observation Function Measurement Accuracy 1 s Frequency/Revolution/Velocity Measurem Measurement accuracy Accuracy depending on the input frequency Period Measurement	Set an observational center, then zoom and display surrounding area (for fluctuation observation) Offset setting range = (1 div × 1000) ments ±(0.05% of 10 div + accuracy depending on the input frequency) 1 Hz-2 kHz: 0.05% of input waveform freq +1 mHz 2 kHz-10 kHz: 0.3% of input waveform freq 20 kHk-200 kHz 0.5% of input waveform freq
(Braking Applications) Offset Observation Function Measurement Accuracy 1 s Frequency/Revolution/Velocity Measure Measurement accuracy Accuracy depending on the input frequency	Set an observational center, then zoom and display surrounding area (for fluctuation observation) Offset setting range = (1 div × 1000) ments ±(0.05% of 10 div + accuracy depending on the input frequency) 1 Hz-2 kHz: 0.05% of input waveform freq 10 kHz-20 kHz: 0.3% of input waveform freq 20 kHk-200 kHz: 0.5% of input waveform freq ±(0.05% of 10 div + accuracy depending on the input period) ±00 µs-50 s: 0.05% of input waveform interval
(Braking Applications) Offset Observation Function Measurement Accuracy 1 5 Frequency/Revolution/Velocity Measure Measurement accuracy Accuracy depending on the input frequency Period Measurement Measurement accuracy	Set an observational center, then zoom and display surrounding area (for fluctuation observation) Offset setting range = (1 div × 1000) ments ±(0.05% of 10 div + accuracy depending on the input frequency) 1 Hz-2 kHz: 0.05% of input waveform freq 1 Hz-2 kHz: 0.1% of input waveform freq 20 kHz-200 kHz: 0.3% of input waveform freq 20 kHz-200 kHz: 0.5% of 10 div + accuracy depending on the input period)

Duty Measurement					
Accuracy depending on the input frequency	0.1 Hz–1 kHz 1 kHz–10 kHz 10 kHz–50 kHz 50 kHz–100 kHz 100 kHz–200 kHz	±2.0% of 100%			
■Pulse Width Measurement	100 1012 200 1012	14.070 01 10070			
Measurement accuracy Accuracy depending on the input pulse width	±(0.05 % of 10 dir 500 μs–100 s 100 μs–500 μs 50 μs–100 μs 2 μs–50 μs	v + accuracy depending on the input pulse width) 0.05% of input waveform pulse width 0.3% of input waveform pulse width 0.3% of input waveform pulse width 0.5% of input waveform pulse width + 0.1 µs			
Power Supply Frequency Measurement Measurement accuracy	Center freq. at 50,	60 Hz, accuracy of ± 0.03 Hz, resolution of 0.01 Hz 0 Hz, accuracy of ± 0.3 Hz, resolution of 0.01 Hz			
Under standard operating conditions: (te	emperature 23°C+5°	C, humidity 55%±10% RH, warmup of at least 30			
minutes, and after calibration.)	•				
Given a minimum input of 0.2 Vpp. Mea During freq./Period measurement: 1 V	surement conditions	s: input (range=±10 V, bandwidth=FULL,			
	: 1 Vpp/5 ns square	wave input (range=±10 V, bandwidth=FULL,			
hysteresis=±1%)					
■During power supply frequency measurement: 90 Vrms sinewave input (range=AC100 V, BW=100 kHz) 5 Electromagnetic pickup: given output within 0.2 Vpp–42 Vpp. Minimum sensitivity=0.2 V (at 1:1), connected with 1:1 cable. For types that requires a power supply or terminal resistance, apply it to the sensor side					
combination with 700929	D (1	virect input With a cable which doesn't comply with the safety standard)			
700929	-0 3 -0 3				
701275 Acceleration/Voltage	Module (with	n AAF)			
Input channels	2	and the second second second second second			
Input format		en acceleration and voltage input filter) supports both acceleration and voltage			
Input coupling		cceleration) ACCL, (voltage) AC,DC,GND			
Max sampling rate	100 kS/s	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
A/D conversion resolution	16-bit (2400 LSB/	div)			
Input type	Isolated, unbaland				
Frequency band (-3 dB)1		Hz-40 kHz (voltage) DC-40 kHz			
AC coupling (-3 dB point) acceleration/voltage	0.4 Hz or less				
Input range					
For acceleration (±5 V=X1 range)	X0.1-X1-X100 (1				
For voltage (10:1)		div (1-2-5 steps) ¹²			
For voltage (1:1) Effective measuring range	5 mV/div–10 V/div 20 div (10 div disp				
DC offeet		iay lange)			

м
2 V
1
eral
at 30

- minutes, and after Calibration.) 12 The module's insulation is functional insulation. Even when using a probe, input above 42 V is not considered safe. 13 when fss 50 Hz–100 kHz , (when fs <=50 Hz , fc is fixed to 20 Hz) 14 excludes AUTO Filter 15 Piezotron is a registered trademark of Kistler Instrument Corp.. ICP is a registered trademark of PCB Piezotronics Inc.. ISOTRON2 is a registered trademark of ENDEVCO Corp..

Input channels		2					
Input signals		Voltage	or temperature (thermoco	uple)			
AAF (anti-aliasing filter) Input couplings Input typesI		701261:	none, 701262: included				
			mocouple), DC, AC, GND	1			
			unbalanced				
Maximum sampling rate		100 kS/s					
	mperature						
A/D conversion resolution			16 bits (2400 LSB/div); te	emperature: 0.1°C			
Frequency range (-3 dB)		DC to 40					
	mperature						
			5 mV/div to 20 V/div (10 div display, in steps of 1-2-5)				
			K, E, J, T, L, U, N, R, S, B, W, iron-doped gold/chromel				
		20 div (d +5 div					
		±0.25% of 10 div)					
Temp. measured range/acc	curacy ^{1, 2}	Туре	Measured Range	Accuracy			
		К	-200°C to 1300°C	±(0.1% of reading + 1.5°C)			
		E	-200°C to 800°C	However, for -200°C to 0°C,			
		J	-200°C to 1100°C	±0.2% of reading + 1.5°C)			
		Т	-200°C to 400°C				
		LU	-200°C to 900°C -200°C to 400°C				
			-200°C to 1300°C				
		N R, S	0°C to 1700°C	±(0.1% of reading + 3°C)			
		13, 3	0 0 10 1700 0	However, 0°C for 200°C; ±8°C			
				200°C for 800°C; ±5°C			
		В	0°C to 1800°C	±(0.1% of reading + 2°C)			
		5	0 0 10 1000 0	However, 400°C to 700°C: ±8°C			
				Effective range .: 400°C to 1800°C			
		W	0°C to 2300°C	±(0.1% of reading + 3°C)			
		Gold/chromel		0 K to 300 K 0 to 50 K: ±4 K			
				50 to 300 K; ±2.5 K			

,	150 V (DC+ACpeak): allowable maximum4
Max. allowable common mode volt.	42 V (DC+ACpeak) (CAT I & CAT II, 30 Vrms)
(1 kHz or less)	
Input connector	Binding post
Input impedance	Approximately 1 MΩ
	e OFF, AUTO (AAF), 4 kHz, 400 Hz, 40 Hz (-12 dB/oct except AUTO)
	re OFF, 30 Hz, 8 Hz, 2 Hz
AAF (anti-aliasing filter) ⁵ 701262 or	ly Cutoff frequency fc = fs (sampling frequency) × 40%
	fc automatically linked with the sampling frequency.
	Cutoff characteristics: -65 dB at 2 Xfc (typical value)
	nt ±(0.01% of 10 div)/°C (typical value)
	in ±(0.02% of 10 div)/°C (typical value)
Compatible cable	366961 (banana-to-alligator 1:1)

1. Under reference operating conditions (ambient temp. of 23°C ±5°C, ambient humidity of 55% ±10%RH, after 30-minute warmup period and calibration).
 2. Does not include reference junction/temperature compensation accuracy.
 3. Since the input connecter is of a binding post type, it is possible to touch the metal part of the connector.
 Therefore, for safety reasons, the maximum value is 42 V (DC+ACpeak).
 4. Maximum value at which the input circuit will not be damaged.
 5. When fise 50 Hz to 100 KHz. When fisc50 Hz, fc=20 Hz (fixed).
 6. Except when filters set to AUTO.

DL750/DL750P Model Numbers and Suffix Codes

Model	Su	ffix Code	Description
701210			"DL750 main unit (16 isolated channels + 16-bit logic)1
			112 mm width A6 thermal printer built-in"
701230			"DL750P main unit (16 isolated channels + 16-bit logic)1
			210 mm width A4 thermal printer built-in"
Power cable	-D		UL/ CSA standard
	-F		VDE standard
	-R		AS standard
	-Q		BS standard
	-H		GB standard(Complied with CCC)
Internal media drive ²	٦.	-J1	Floppy drive
	F	-J2	Zip [®] drive (available for the DL750 only) ³
		-J3	PC card drive
Default Help language	e	-HE	English online help
		-HJ	Japanese online help
		-HC	Chinese online help
		-HG	German online help
		-HF	French online help
		-HL	Italian online help
		-HK	Korean online help
Memory expansion		/M1	Memory expansion to 10 MW/CH ⁴
		/M2	Memory expansion to 25 MW/CH ⁴
		/M3	Memory expansion to 50 MW/CH ⁴
Other specifications		/C8	Internal 30 GB hard drive (FAT32)
		/C10	Ethernet interface
		/G2	User-defined math function
		/G3	DSP channel function
		/P4	Probe power (4-output)
		/DC	DC12 V power (DC10-18 V) (DL750 only)3

Plug-in modules are not included.
 Choose only one.
 Zip drive and DC12V power supply cannot be specified together with the DL750P.
 Cannot be specified together.

Standard Accessories

Product		Order Qty.
Power cable		1
User's manuals (one set)		1
Transparent front cover		1
Printer roll paper	DL750 (A6 10 m/roll)	3
	DL750P (A4 20 m/roll)	1
Cover panel (for blank module slots)		8
Rubber feet (four per set)		1
Soft case (for storing accessories)		1

Zip is a registered trademark of lomega Corporation in the United States and/or other countries. Other company names and product names appearing in this document are trademarks or registered trademarks of their respective companies.

Plug-in Module Model Numbers⁵

Model No.	Description	Firmware
701250	High-speed 10 MS/s 12-bit isolation module (2 CH)	1.07 or later
701251	High-speed 1 MS/s 16-bit isolation module (2 CH)	1.07 or later
701255	High-speed 10 MS/s 12-bit non-isolation module (2 CH)	2.02 or later
701260	High-voltage 100 kS/s 16-bit isolation module (2 CH, with RMS)	2.02 or later
701261	Universal Module (2 CH)	5.01 or later7
701262	Universal Module (with AAF 2 CH)	5.01 or later7
701265	Temperature/high-precision voltage module (2 CH)	1.07 or later
701270	Strain module (NDIS, 2 CH)	2.02 or later
701271	Strain module (DSUB, Shunt-CAL, 2 CH)	2.02 or later
701275	Acceleration/voltage module (with AAF, 2 CH)	3.01 or later
701280	Frequency module (2 CH)	3.01 or later

5. Probes are not included with any modules. 6. The latest firmware for the DL750 series is available on our Web site. http://www.yokogawa.com/mVDL750/ 7. Only supported by the initially-released DL750P (ver. 5.01 or later). DL750 support to be offered by 3rd quarter 2005 (ver. 6.01 or later)



DL750/DL750P Accessories

Product	Model No.	Description1		
Isolated probe	700929	1000 Vrms-CATII for 701250, -51, and -60 (10:1)		
"1:1 BNC safety adapter lead (in combination with the following)"	701901	1000 Vrms-CATII for 701250, -51, and -60		
Safety mini clip (hook type)	701959	1000 Vrms-CATII, 1 set each of red and black		
Large Alligator clip (dolphin type)	701954	1000 Vrms-CATII, 1 set each of red and black		
Alligator adapter (rated volt.: 1000 V)	758929	1000 Vrms-CATII, 1 set each of red and black		
Alligator adapter (rated volt.: 300 V)	758922	300 Vrms-CATII, 1 set each of red and black		
Fork terminal adapter	758921	1000 Vrms-CATII, 1 set each of red and black		
Passive probe for DL750/750P ²	701940	Non-isolated 600 Vpk (701255) 42 V or less (other) (10:1)		
1:1 BNC-alligator cable	366926	Non-isolated 42 V or less, for 701250, -51, -55, 1 m		
1:1 Banana-alligator cable	366961	Non-isolated 42 V or less, for 701261, -62, -65, 1.2 m		
Current probe ³	701933	30 Arms, DC to 50 MHz, supports probe power		
Current probe ³	701930	150 Arms, DC to 10 MHz, supports probe power		
Current probe ³	701931	500 Arms, DC to 2 MHz, supports probe power		
Probe power ⁴	701934	Large current output, external probe power supply (4 outputs)		
Differential probe	700924	1400V pk, 1000 Vrms-CAT II		
Bridge head (NDIS, 120 Ω/350 Ω)	701955/56	With 5 m cable		
"Bridge head (DSUB, Shunt-cal 120 Ω/350 Ω)"	701957/58	With 5 m cable		
GO/NO-GO cable	366973	For GO/NO-GO I/O and start input		
Safety BNC-banana adapter	758924	500 Vrms-CATII, for 701250, -51, -55, -60		
Printer roll paper	B9988AE	DL750, A6 size (120 mm wide × 10m), include 10 rolls		
Printer roll paper	701966	DL750P, A4 size (210 mm wide \times 20m), include 6 rolls		
High-speed logic probe ⁵	700986	8-bit, non-isolated, response speed: 1µs		
Isolated logic probe6	700987	8-bit, each channel isolated, response speed: 20 ms (for AC)		
Isolated logic measurement leads	758917	"Isolated logic measurement leads (2 per set) Alligator clip required separately. "		
Conversion adaptor	366928	BNC (jack)-RCA (plug) conversion		
Safety BNC cable (1 meter)	701902	1000 Vrms-CATII (BNC-BNC)		
Safety BNC cable (2 meters)	701903	1000 Vrms-CATII (BNC-BNC)		
Soft carrying case	701963	For DL750, with 3 storage pockets		
Soft carrying case	701967	For DL750P, with 3 storage pockets		
Actual allowable voltage is the lower of the voltages specified for the main unit and the cable				

Actual allowable voltage is the lower of the voltages specified for the main unit and the cable
 42 V is safe when using the 701940 with a Non isolated type BNC input.
 The number of current probes that can be powered from the main unit probe power is limited. See the following for details. http://www.yokogawa.com/thm/probe/
 There is no limit to the number of externally powered probes that can be used.
 One of each connection lead (B9879PX and B9879KX) is included.
 758917, and either 758922 or 758929 is required for measurement.

Exterior Dimensions

