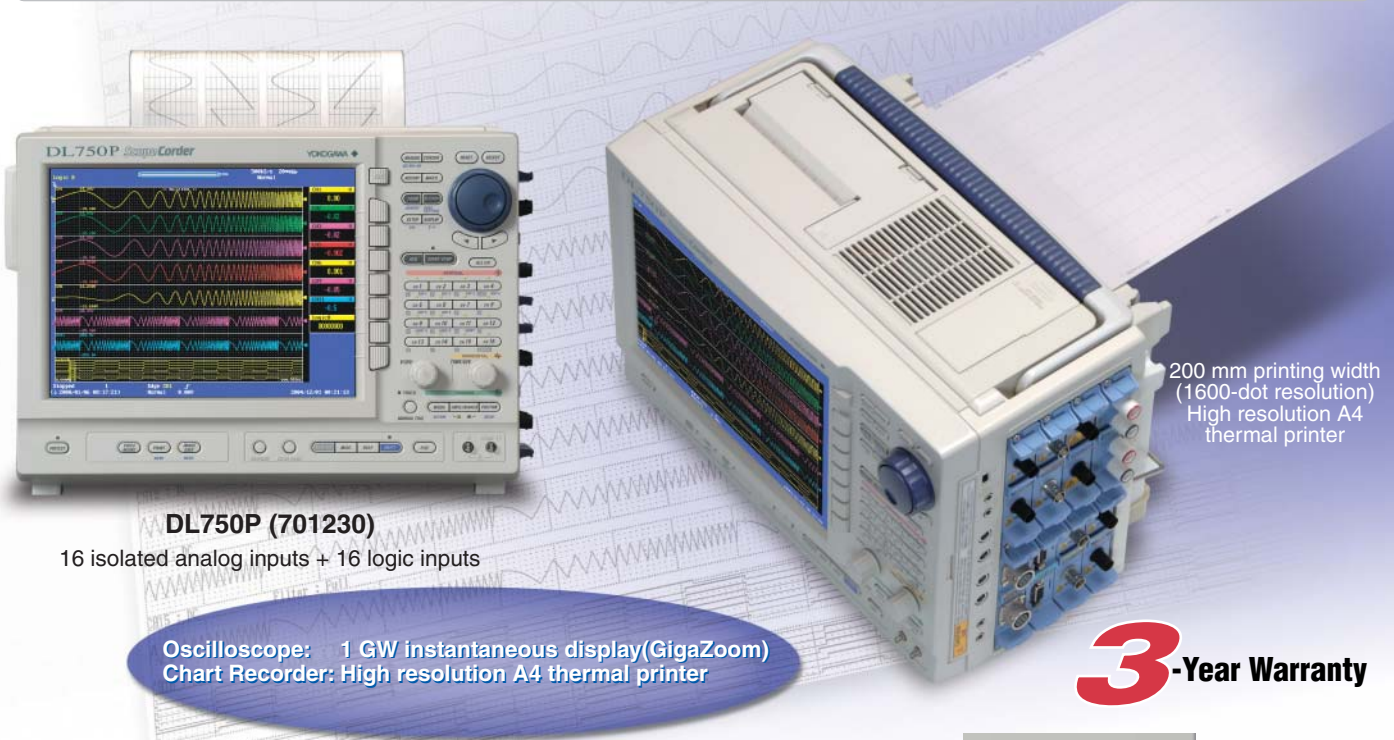


DL750P

Scope & Chart Recorder Two-in-One

Sometimes an Oscilloscope, Sometimes a Chart Recorder!
The DL750P is equipped with a fully functional scope and chart recorder.



200 mm printing width
 (1600-dot resolution)
 High resolution A4
 thermal printer

DL750P (701230)

16 isolated analog inputs + 16 logic inputs

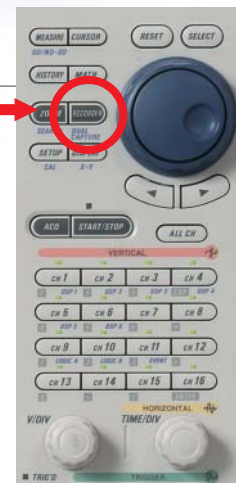
Oscilloscope: 1 GW instantaneous display(GigaZoom)
 Chart Recorder: High resolution A4 thermal printer

3-Year Warranty

■ Chart Recorder Function

Access Settings Directly with the "RECORDER" Key

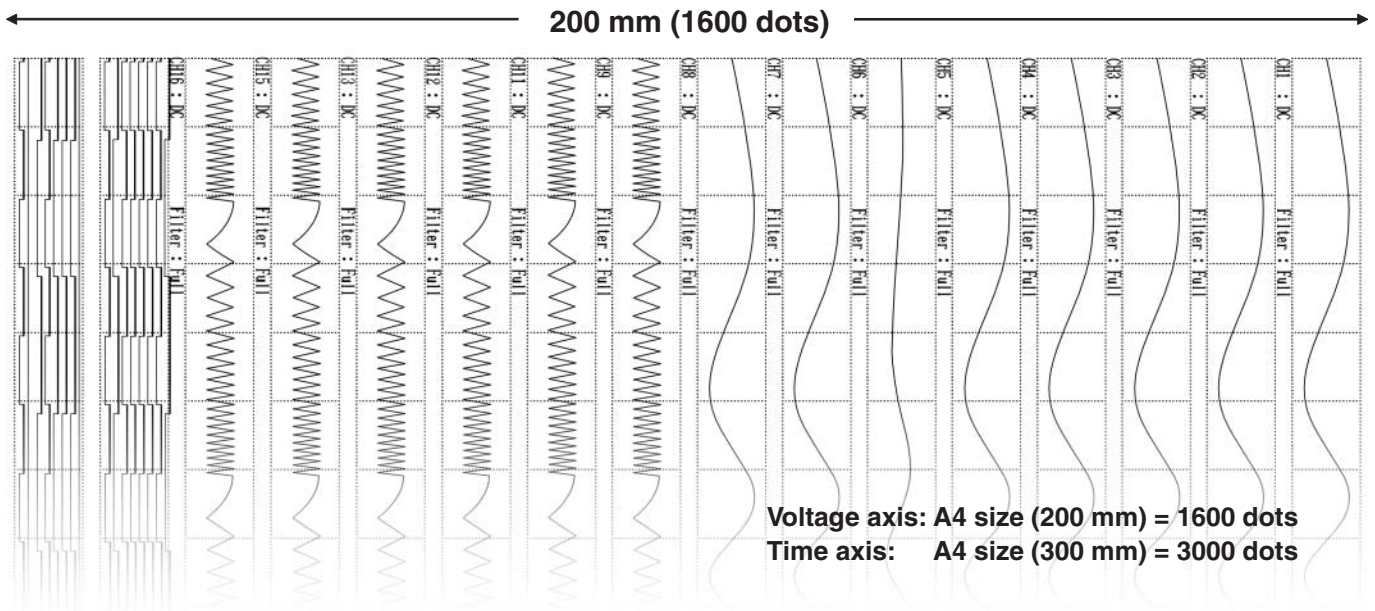
- **Set chart speed, chart length, and other settings in menu just like a chart recorder**
- **Automatic recording to memory**
 During real-time printing, the DL750P also automatically records the waveforms to memory in the background. Up to approximately 10 meters (1000 div) can be saved.
- **"Reprint" function**
 Once measurement completed, you can change the print format, length, or other parameters and print the data again. The Reprint function means never worrying about printer failure or running out of paper.



■ The DL750P enables you to...

- Check results immediately while on site**
 High speed printer outputs an A4 size sheet in approximately 15 seconds (20 mm/sec)
- View multi-channel data in high resolution**
 The A4 size printer records all channels together, with 1600-dot vertical resolution.
- Print only what you need**
 Using the DL750's GigaZoom function, you can instantly print out only the portions of waveforms that you need, thus saving paper.
- Record for long periods of time with high reliability**
 Waveforms can be printed out continuously in real time while the electronic data is also automatically saved (up to 1000 div or 10 meters).

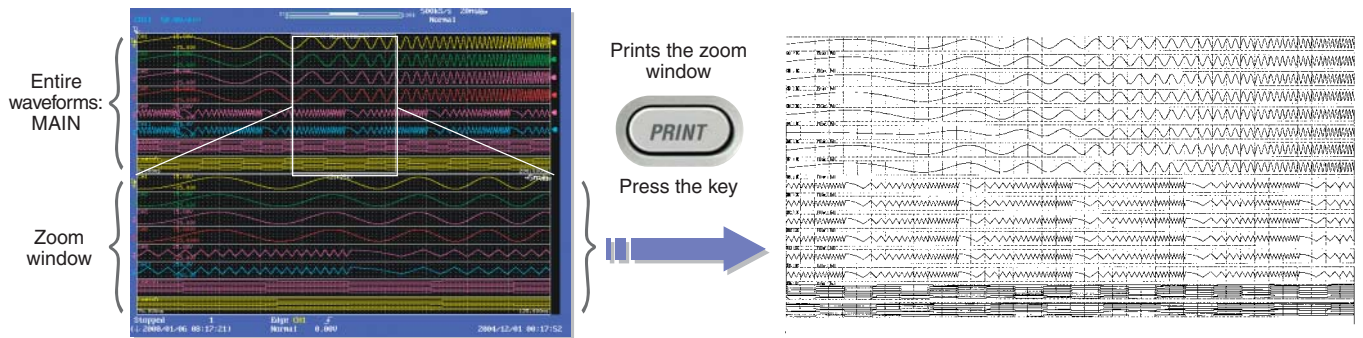
DL750P Printout Example (A4 Size, High Resolution)



GigaZoom function + A4 Printer

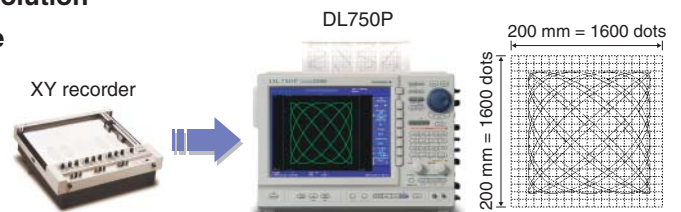
The GigaZoomEngine instantly displays up to 1 GW of data and zoom windows at the same time

Print any length of the zoomed waveforms in high resolution "Zoom Print" function



Prints XY Plots in High Resolution

- Includes dedicated mode for emulating an XY recorder (XY Recorder mode)
- Prints A4 size plots (200 mm x 200 mm) in high resolution
- Prints up to 4 pairs(of waveforms) at the same time
- Replaces XY recorders



Universal Modules

- **Multiple inputs of general-use voltage (100 kS/s, 16-bit) and temperature (thermocouple)**
 - Two isolated inputs (voltage: 100 kS/s, 16-bit; temperature: 500 S/s)
 - Two types of modules available: with or without AAF (anti-aliasing filter)
- **Key Specifications**
 - Voltage range: 20 V/div-5 mV/div (for 10 div display, in steps of 1-2-5)
 - Temperature: Thermocouple (K, E, J, T, L, U, N, R, S, B, W, iron-doped, gold/chromel)
 - Filters: AUTO (AAF), 4 kHz, 400 Hz, 40 Hz

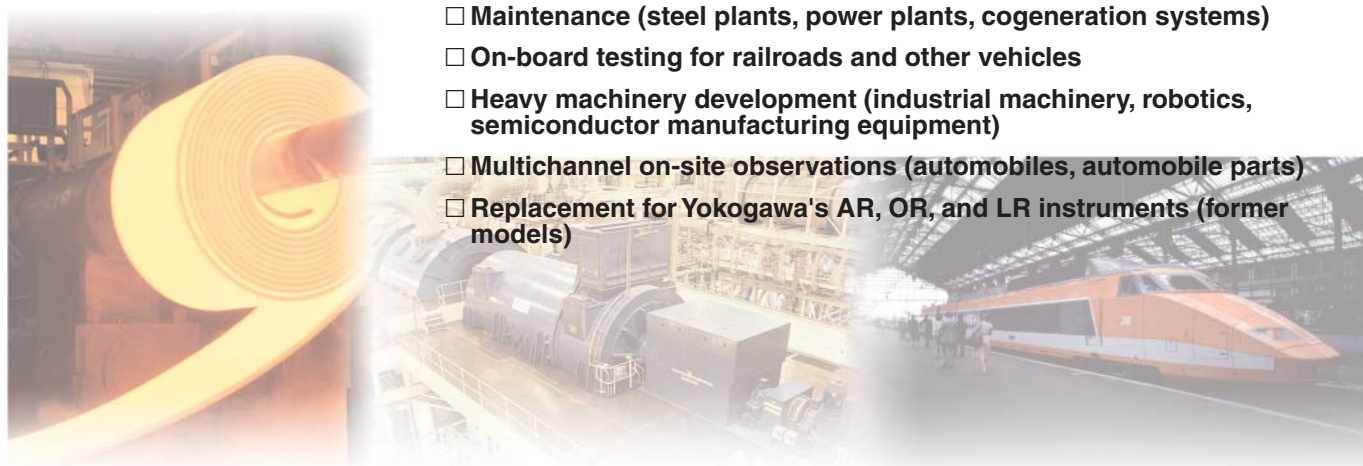


Universal
701261



Universal with AAF
701262

DL750P Applications



- Maintenance (steel plants, power plants, cogeneration systems)
- On-board testing for railroads and other vehicles
- Heavy machinery development (industrial machinery, robotics, semiconductor manufacturing equipment)
- Multichannel on-site observations (automobiles, automobile parts)
- Replacement for Yokogawa's AR, OR, and LR instruments (former models)

Main Unit Specifications

Basic Specifications

| | | |
|------------------------------------|----------|---|
| Input | | Plug-in module (each unit has a built-in A/D converter) |
| Type | | 8 (up to 16 channels) |
| Number of Slots | | 10 MS/s (701250/701255), 1MS/s (701251) |
| Maximum sampling rate ¹ | | 100 kS/s (701260/61/62/70171/75), 25 kS/s (701280), 500 S/s (701265) |
| Logic inputs | | 16 (8 bits × 2) |
| Max. record length | Standard | 2.5 MW/CH, 50 MW total |
| | /M1 | 10 MW/CH, 250 MW total |
| | /M2 | 25 MW/CH, 500 MW total |
| | /M3 | 50 MW/CH, 1 GW total |
| Time axis accuracy ² | | ±0.005% |
| Time axis setting range | | 500 ns-30 sec/div, 1 min-30 min/div, 1 h-12 h/div, 1 day-3 days/div (up to 30 days) |
| Acquisition modes | | Normal, Envelope, Averaging, Box average |

Triggers

| | | |
|-------------------------|--|--|
| Modes | | AUTO, AUTO LEVEL, NORMAL, SINGLE, SINGLE (n) |
| Simple trigger source | | CH1 to CH16, DSP1 to DSP6, LINE, EXT, LOGIC, A, LOGIC, B, Time |
| Enhanced trigger source | | A—B(n), A delay B, B > Time, B < Time, B Time Out, Period, Window, Wave Window |

Display

| | | |
|----------------------|--------------|--|
| Display ³ | | 10.4-inch color TFT liquid crystal display (SVGA 800 × 600 dots) |
| Display modes | Split | Single, Dual, Triad, Quad, Octal, Hexadecimal (DL750P) |
| | Zoom | Main, Main&Z1, Main&Z1&Z2, Main&Z2, Z1 ONLY, Z2 ONLY, Z1&Z2 |
| | XY | Single Mode (X is fixed, Y is set by user), Quad Mode (XY1, XY2, XY3, XY4) |
| | Accumulation | PERSIST Overlays in one color |

Printer (DL750P)

| | | |
|---|----------------------------|--|
| Built-in printer | | Thermal line-dot printing |
| Printing method | | A4 size roll (210 mm (W) × 20 meters) |
| Paper | | 200 mm (1600 dots) |
| Effective print width | | Real-time printing, XY printing, Screen printing |
| Functions | | High resolution printing of specified range |
| Maximum printing speed | | 20 mm/sec (500 ms/div) |
| Real-time printing (chart recorder mode) | | Print (record) waveforms in real time, and save automatically to memory (up to 1000 div) in background |
| Resolution | Vertical | 8 dots/mm A4 size (200 mm)=1600 dots |
| | Horizontal | 10 dots/mm A4 size (300 mm)=3000 dots |
| Waveform printing | Speeds | 20 mm/s (500 ms/div), 10 mm/s, 5 mm/s, 2 mm/s, 1 mm/s 100 mm/min, 50 mm/min, 25 mm/min, 20 mm/min, 10 mm/min, 5 mm/min, 2 mm/min, 1 mm/min 100 mm/h, 50 mm/h, 25 mm/h, 20 mm/h, 10 mm/h |
| | Print length (shot length) | Continuous, 20 cm, 50 cm, 1 m, 2 m |
| | Memory length | 2.5 M/CH fixed, max. 1000 div (depends on chart speed) |
| Numerical printing | Digital values | Intervals: 1 s, 2 s, 5 s, 10 s, 15 s, 20 s, 30 s, 1 min, 2 min, 5 min, 10 min, 15 min, 20 min, 30 min, 60 min Print directions: Standard or rotated 180 degrees |
| Print format | Vert. axis divisions | Select from 1, 2, 3, 4, 8, or 16 Flexible zone function available when 1 division selected |
| | Vert. axis format | Select 1 div=10 div printed or 1div=10 mm printed |
| | Extra information | Gauge display, upper/lower limits, channel markers, time |
| | Annotations | CH information, messages, CH data |
| Reprint function | | Reprints after STOP (enables resetting of format and range specification) PDF file output function |
| Print start/stop | | Specified length printed upon trigger (Single mode, Repeat(Normal) mode) |
| | Ext. terminal | GO/NO-GO terminal can be used for start/stop input (L=start, H=stop) |
| XY recorder mode | | Prints XY plots in high resolution; emulates an XY plotter. |
| Functions | Vertical | 8 dots/mm × 200 mm=1600 dots |
| Resolution | Horizontal | 8 dots/mm × 200 mm=1600 dots |
| Max. no. of recordable waveforms | | Any group of 4 |
| Sampling rate | | 5 kS/s max. |
| Memory length | | 1 MW/CH |
| Record format | | XY single (fixed, T-Y not available) |
| Zoom Print/Fine print function | | Waveforms can be printed in high resolution, also when not in real-time mode |
| Functions | | Zoom print Quickly prints the portion zoomed with the GigaZoomEngine in high resolution |
| | Fine print | Prints the cursor-specified range in high resolution |
| Print format | Vertical | Same format as in real-time mode |
| | Horizontal | Print length can be specified |

Screen Data Output (Image Saving)

| | | |
|----------------|--|----------------------------|
| Output formats | | PNG, JPEG, BMP, PostScript |
|----------------|--|----------------------------|

Analysis Functions

| | | |
|--------------------------------------|------------|---|
| Ch-to-ch calculation function | | Definable math waveforms: 8 |
| Calculable record length | | Up to 800 kW (MATH1 only), up to 100 KW (MATH 1-8) |
| Standard: | Operators | Addition, subtraction, multiplication, division, binary conversion, phase shifting, FFT |
| | FFT types | PS (1000, 2000, 5000, 10000, 20000, 50000, or 100000 points) |
| | FFT window | Rectangular, Hanning, Flattop, Exponential |

User-defined math function (with /G2 option)

| | |
|----------------------|---|
| Operators | ABS, SQ, LOG, EXP, NEG, SIN, COS, TAN, ATAN, PH, DIF, DDIF, INTG, BIN |
| | P2, P3, F1, F2, FV, PWHH, PWHL, PWLL, PWXX |
| | FILT1, FILT2, HLBT, MEAN, |
| | MAG, LOGMAG, PHASE, REAL, IMAG |
| FFT types | LS, PS, PSD, CS, TF, CH |
| Number of FFT points | 1000, 2000, 5000, 10000, 20000, 50000, 100000 |
| FFT window | Rectangular, Hanning, Flattop, Exponential |

Waveform Measurement Functions

| | |
|---|--|
| Numerical monitoring function | Numerically displays the waveform level (instantaneous) for approximately 1 sec interval. |
| Cursors | Horizontal, Vertical, Marker, Degree, H&V |
| No. of auto-measured waveform parameters | 24 |
| Operations | P-P, Max, Min, High, Low, Avg, Rms, Amp, StdDiv, +Oshot, -Oshot, Rise, Fall, Freq, Period, +Duty, -Width, -Pulse, Burst1, Burst2, Avg, Freq, Avg, Period, Rdelay, Fdelay, Int1TY, Int2TY, Int1XY, Int2XY |
| Cycle/history statistical processing | Max. no. of cycles: 48,000 (max. no. of parameters: 48,000) |
| History search functions | Zone, Parameter |
| GO/NO-GO | Judgement (16), Zone (4) Print, Save (Binary/ASCII), Beep, Mail |

External I/O

| | |
|---|--|
| LOGIC input specifications | 8 bits × 2 (26 pin connector × 2) |
| Maximum sampling rate | 10 MS/s |
| Compatible probes | 8-bit non-isolated (700986), 8-bit isolated (700987) |
| EXT TRIG IN/EXT TRIG OUT | RCA pin jack (TTL (0 to 5 V) input) |
| EXT Clock IN | RCA pin jack (TTL (0 to 5 V) input) |
| USB peripheral terminal | USB mouse, USB keyboard, USB printer |
| (Complies with Rev1.1) | DL750P only (USB memory, USB storage) |
| | For control from PC via USB |
| Ethernet (with /C10 option) | Complies with 100BASE-TX, 10BASE-T |
| Other communication interfaces | GP-IB, SERIAL (RS232), SCSI |
| GO/NO-GO I/O | Compatible jack (RJ11), TTL (0-5 V input) |
| Probe power terminal (with /P4 option) | 4 |
| Max. no. of probes powered | Compatible probes |
| Current probes allowed | Current probes: 701933 (30 A), 701930 (150 A), 701931 (500 A), others |
| Max. no. of current probes allowed | See: http://www.yokogawa.com/tm/dl/probe_index/tm-dlprobe.htm |

Media Drives

| | | |
|-----------------------|-------------|---|
| Internal media drives | FDD/PC card | Selectable form floppy drive or PC card (Zip not available with the DL750P) |
| | HDD | 40 GB hard drive (with /C8 option) |

DSP Channel Function (with the /G3 Option)

| | |
|-----------------------|--|
| DSP channels | 6 |
| Maximum sampling rate | 100 kS/s (when exceeding 100 kS/s, the data is resampled at 100 kS/s) |
| Operators | ■ Calculation of 2 items between channels (addition, subtraction, multiplication, division) ■ Differentiation (w/ LPF) ■ Integration ■ Digital filtering (LPF, HPF, BPF, FIR type, IIR type, variable cutoff frequency) ■ Knocking filter function (filter calculations and bulb noise rejection function) |

Real-Time Hard Disk Recording (with /C8 Option)

| | |
|----------------------------------|-----------------|
| Max usable space per single save | 1 GW |
| Maximum sampling rate | 100 kS/s (1 CH) |

Dual Capture Function

| | |
|--|--|
| This function captures the same waveform data at two different sampling rates. | |
| Main (low-speed) | Max. sampling rate: 100 kS/s, max. memory length: 100 MW |
| Sub (high-speed) | Max. sampling rate: 10 MS/s, max. memory length: 10 KW (fixed) |
| Sub maximum no. of captured screens | 500 (/M3, /M2), 250 (/M1), 100 (with standard memory) |

Voice Memo Function

| | |
|----------------------|--|
| Voice memo | Stores voice data during roll mode, plays back from microphone terminal and speaker output terminal. |
| Voice comment | Stores voiced comments when saving images. |

Acquisition Memory Backup

| | |
|--|--|
| Functions | Backs up acquisition memory and voice data, maintained by four AA alkaline batteries |
| Backup duration (reference value) ² | Approximately 10 hours (with /M3 option) |

General Specifications

| | |
|-----------------------------|--|
| Rated supply voltage | 100 to 120 VAC/200 to 240 VAC (automatically switched) |
| Rated supply frequency | 50/60 Hz |
| Power consumption | Approximately 200 VA-MAX |
| Withstand voltage | 1500 VAC for one minute across power supply and ground |
| Insulating resistance | 10 MΩ or greater at 500 VDC across power supply and ground |
| Exterior dimensions | DL750P 355 mm (W) × 250 mm (H) × 225 mm (D) excluding handle and protrusions |
| Weight | DL750P Modules Approx 7.9 kg (main unit only), approx 10.3 kg (main unit + 701250 × 8) |
| Operating temperature range | Approximately 300 g per module (average) 5 to 40°C |

1. Maximum sampling rate depends on the type of modules used.

2. If the sampling frequency exceeds the max. sampling rate of the module, the same data is inserted.

3. Standard operating conditions: ambient temp. 25°C ±5°C, ambient humidity 55 ±10%RH

4. Some pixels of the LCD display may be permanently illuminated or non-illuminated. Also, due to the characteristics of LCDs there may be gradients in brightness. Please understand that these phenomena do not indicate a defective display.

Universal (Voltage/Temperature) Modules (701261/701262)

| Input channels | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|---|----------------|----------|---|------------------|----------------------------|---|-----------------|--|---|------------------|--------------------------|---|-----------------|--|---|-----------------|--|---|-----------------|--|---|---------------|--|------|---------------|---|---|---------------|---|---|---------------|--------------------------|--------------|--------------|---------------|---|--|---------------------|
| Input signals | Voltage or temperature (thermocouple) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AAF (anti-aliasing filter) | 701261: none, 701262: included | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Input couplings | TC (thermocouple), DC, AC, GND | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Input types ¹ | Isolated unbalanced | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Maximum sampling rate | Voltage 100 kS/s | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Data updating rate | Temperature 500 Hz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A/D conversion resolution | Voltage: 16 bits (2400 LSB/div); temperature: 0.1°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Frequency range (-3 dB) ¹ | Voltage DC to 40 kHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Temperature DC to 100 Hz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Input range | Voltage (1:1) 5 mV/div to 20 V/div (10 div display, in steps of 1-2-5) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Temperature K, E, J, T, L, U, N, R, S, B, W, iron-doped gold/chromel | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Effective measurement range (voltage) | 20 div (display range 10 div) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DC offset (voltage) | ±5 div | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DC accuracy ¹ (voltage) | ±(0.25% of 10 div) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Temp. measured range/accuracy ^{1,2} | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table border="1"> <thead> <tr> <th>Type</th> <th>Measured Range</th> <th>Accuracy</th> </tr> </thead> <tbody> <tr> <td>K</td> <td>-200°C to 1300°C</td> <td>±(0.1% of reading + 1.5°C)</td> </tr> <tr> <td>E</td> <td>-200°C to 800°C</td> <td>However, for -200°C to 0°C, ±0.2% of reading + 1.5°C</td> </tr> <tr> <td>J</td> <td>-200°C to 1100°C</td> <td>±0.2% of reading + 1.5°C</td> </tr> <tr> <td>T</td> <td>-200°C to 400°C</td> <td></td> </tr> <tr> <td>L</td> <td>-200°C to 900°C</td> <td></td> </tr> <tr> <td>U</td> <td>-200°C to 400°C</td> <td></td> </tr> <tr> <td>N</td> <td>0°C to 1300°C</td> <td></td> </tr> <tr> <td>R, S</td> <td>0°C to 1700°C</td> <td>±(0.1% of reading + 3°C) However, 0°C for 200°C: ±8°C 200°C for 800°C: ±5°C</td> </tr> <tr> <td>B</td> <td>0°C to 1800°C</td> <td>±(0.1% of reading + 2°C) However, 400°C to 700°C: ±8°C Effective range: 400°C to 1800°C</td> </tr> <tr> <td>W</td> <td>0°C to 2300°C</td> <td>±(0.1% of reading + 3°C)</td> </tr> <tr> <td>Gold/chromel</td> <td>0 K to 300 K</td> <td>0 to 50 K: ±4</td> </tr> <tr> <td>K</td> <td></td> <td>50 to 300 K: ±2.5 K</td> </tr> </tbody> </table> | Type | Measured Range | Accuracy | K | -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, ±0.2% of reading + 1.5°C | J | -200°C to 1100°C | ±0.2% of reading + 1.5°C | T | -200°C to 400°C | | L | -200°C to 900°C | | U | -200°C to 400°C | | N | 0°C to 1300°C | | R, S | 0°C to 1700°C | ±(0.1% of reading + 3°C) However, 0°C for 200°C: ±8°C 200°C for 800°C: ±5°C | B | 0°C to 1800°C | ±(0.1% of reading + 2°C) 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 |
| Type | Measured Range | Accuracy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| K | -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, ±0.2% of reading + 1.5°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| J | -200°C to 1100°C | ±0.2% of reading + 1.5°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| T | -200°C to 400°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| L | -200°C to 900°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| U | -200°C to 400°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| N | 0°C to 1300°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R, S | 0°C to 1700°C | ±(0.1% of reading + 3°C) However, 0°C for 200°C: ±8°C 200°C for 800°C: ±5°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B | 0°C to 1800°C | ±(0.1% of reading + 2°C) 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Max. input voltage (1 kHz or less) | 42 V (DC+ACpeak): for satisfying safety standards ³ 150 V (DC+ACpeak): allowable maximum ⁴ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Max. allowable common mode volt. (1 kHz or less) | 42 V (DC+ACpeak) (CAT I & CAT II, 30 Vrms) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Input connector | Binding post | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Input impedance | Approximately 1 MΩ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Input filters | Voltage OFF, AUTO (AAF), 4 kHz, 400 Hz, 40 Hz (-12 dB/oct except AUTO) Temperature OFF, 30 Hz, 8 Hz, 2 Hz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AAF (anti-aliasing filter) ⁵ | 701262 only Cutoff frequency $f_c = f_s$ (sampling frequency) × 40% f_c automatically linked with the sampling frequency. Cutoff characteristics: -65 dB at 2 X f_c (typical value) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Temp. coefficient (for voltage) ⁶ | Zeropoint ±(0.01% of 10 div)/°C (typical value) Gain ±(0.02% of 10 div)/°C (typical value) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Compatible cable | 366961 (banana-to-alligator 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).
- Does not include reference junction/temperature compensation accuracy.
- Since the input connector 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).
- Maximum value at which the input circuit will not be damaged.
- When $f_s = 50$ Hz to 100 kHz, when $f_s \leq 50$ Hz, $f_c = 20$ Hz (fixed).
- Except when filters set to AUTO.

DL750/DL750P Model Numbers and Suffix Codes

| Model | Suffix Code | Description |
|-----------------------------------|----------------------|---|
| 701210 | | "DL750 main unit (16 isolated channels + 16-bit logic)" 112 mm width A6 thermal printer built-in" |
| 701230 | | "DL750P main unit (16 isolated channels + 16-bit logic)" 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 | -J1 | Floppy drive |
| | -J2 | Zip [®] drive (available for the DL750 only) ³ |
| | -J3 | PC card drive |
| Default Help language | -HE | English online help |
| | -HJ | Japanese online help |
| | -HC | Chinese online help |
| | -HG | German online help |
| | -HF | French online help |
| | -HL | Italian 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 |
| /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 | 3 |
| DL750 (A6 10 m/roll) | |
| 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 |

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Plug-in Module Model Numbers⁵

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

5. Probes are not included with any modules.

6. The latest firmware for the DL750 series is available on our Web site.

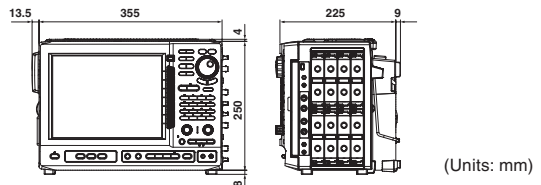


DL750/DL750P Accessories

| Product | Model No. | Description |
|---|-----------|--|
| 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 | B988AE | DL750, A6 size (120 mm wide × 10m), include 10 rolls |
| Printer roll paper | 701966 | DL750P, A4 size (210 mm wide × 20m), include 6 rolls |
| High-speed logic probe ⁵ | 700986 | 8-bit, non-isolated, response speed: 1 μs |
| Isolated logic probe ⁶ | 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.
- 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/tm/probe/>
- There is no limit to the number of externally powered probes that can be used.
- One of each connection lead (B9879PK and B9879KX) is included.
- 758917, and either 758922 or 758929 is required for measurement.

External Dimensions



Note



Before operating the product, read the user's manual thoroughly for proper and safe operation.

Subject to change without notice.
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