# Main Specification



## Models

| Model name | Frequency bandwidth | Input terminal | Max. sample rate |
|---|---|---|---|
| DLM2022 (710105) | 200MHz | 2 analog channels | 1.25GS/s (interleave mode off) |
| DLM2032 (710115) | 350MHz | | |
| DLM2052 (710125) | 500MHz | | |
| DLM2024 (710110) | 200MHz | 4 analog channels / 3 analog channels + 8bit logic | 2.5GS/s (interleave mode on) |
| DLM2034 (710120) | 350MHz | | |
| DLM2054 (710130) | 500MHz | | |

## Basic Specifications

Analog Signal input

| | | |
|---|---|---|
| Input channels | Analog input | DLM20x2: CH1, CH2<br>DLM20x4: CH1 to CH4<br>(CH1 to CH3 when using logic input) |
| Input coupling setting | | AC, DC, DC50 Ω, GND |
| Input impedance | Analog input | 1 MΩ ±1.0%, approximately 20 pF<br>50 Ω ±1.0% (VSWR 1.4 or less, DC to 500MHz) |
| Voltage axis sensitivity | 1 MΩ | 2 mV/div to 10 V/div (steps of 1-2-5) |
| setting range | 50 Ω | 2 mV/div to 500 mV/div (steps of 1-2-5) |
| Max. input voltage | 1 MΩ | 150 Vrms (CAT I) |
| | 50 Ω | Must not exceed 5 Vrms or 10 Vpeak |
| Max. DC offset | 1 MΩ | ±1V (2 mV/div to 50 mV/div) |
| setting range | | ±10V (100 mV/div to 500 mV/div) |
| | | ±100V (1 V/div to 10 V/div) |
| | 50 Ω | ±1V (2 mV/div to 50 mV/div) |
| | | ±5V (100 mV/div to 500 mV/div) |
| DC accuracy*1 | | ±(1.5% of 8 div + offset voltage accuracy) |
| Offset voltage accuracy*1 | 2 mV to 50mV/div | ±(1% of setting +0.2 mV) |
| | 100 mV to 500 mV/div | ±(1% of setting + 2 mV) |
| | 1 V to 10 V/div | ±(1% of setting + 20 mV) |

Frequency characteristics (-3 dB attenuation when inputting a sinewave of amplitude ±3div)*1*2

| | DLM202x | DLM203x | DLM205x |
|---|---|---|---|
| 1 MΩ(when using passive probe) | | | |
| 100 mV to 100 V/div | DC to 200 MHz | DC to 350 MHz | DC to 500 MHz |
| 20 mV to 50 mV/div | DC to 150 MHz | DC to 300 MHz | DC to 400 MHz |
| 50 Ω | | | |
| 10 mV to 10 V/div | DC to 200 MHz | DC to 350 MHz | DC to 500 MHz |
| 2 mV to 5 mV/div | DC to 150 MHz | DC to 300 MHz | DC to 400 MHz |

| | |
|---|---|
| Isolation between channels | -34 dB@ analog bandwidth (typical value) |
| Residual noise level*3 | The larger of 0.4 mV rms or 0.05 div rms (typical value) |
| A/D resolution | 8bit (25LSB/div)<br>Max. 12 bit (in High Resolution mode) |
| Bandwidth limit | FULL, 200 MHz, 100MHz, 20 MHz, 10 MHz, 5 MHz, 2 MHz, 1 MHz, 500 kHz, 250 kHz, 125 kHz, 62.5 kHz, 32 kHz, 16 kHz, 8 kHz (can be set for each channel) |

Maximum sample rate

| | | |
|---|---|---|
| Real time sampling mode | Interleave OFF | 1.25 GS/s |
| | Interleave ON | 2.5 GS/s |
| Repetitive sampling mode | | 125 GS/s |
| Maximum record length | 2 ch model (Standard) | Repeat/Single/Single Interleave: 1.25 M/6.25 M/12.5 MPoints |
| | 2 ch model (/M1S) | Repeat/Single/Single Interleave: 6.25 M/25 M/62.5 MPoints |
| | 4 ch model (Standard) | Repeat/Single/Single Interleave: 1.25 M/6.25 M/12.5 MPoints |
| | 4 ch model (/M1) | Repeat/Single/Single Interleave: 6.25 M/25 M/62.5 MPoints |
| | 4 ch model (/M2) | Repeat/Single/Single Interleave: 12.5 M/62.5 M/125 MPoints |

| | |
|---|---|
| Ch-to-Ch deskew | ±100 ns |
| Time axis setting range | 1 ns/div to 500 s/div (steps of 1-2-5) |
| Time base accuracy | ±0.002% |
| Max. acquisition rate*4 | Approx. 20,000 waveform/sec/ch (Accumulation mode) |
| Dead time in N Single mode | Approx. 2.2 µs (approx. 450,000 waveforms/sec/ch) |

Logic Signal Input (4 ch model only)

| | |
|---|---|
| Number of inputs | 8 bit (excl. 4 ch input and logic input) |
| Maximum toggle frequency*1 | Model 701988: 100 MHz<br>Model 701989: 250 MHz |
| Compatible probes | 701988, 701989 (8 bit input)<br>(701980, 701981 are available) |
| Min. input voltage | 701988: 500 mVp-p<br>701989: 300 mVp-p |
| Input range | Model 701988: ±40 V<br>Model 701989: threshold ±6V |
| Max. nondestructive input voltage | ±40 V (DC + ACpeak) or 28 Vrms (when using 701989) |
| Threshold level setting range | Model 701988: ±40 V (setting resolution of 0.05 V)<br>Model 701989: ±6 V (setting resolution of 0.05 V) |
| Input impedance | 701988: Approx. 1 MΩ/approx. 10 pF<br>701989: Approx. 100 kΩ/approx. 3 pF |
| Maximum sampling rate | 1.25 GS/s |

| | | |
|---|---|---|
| Maximum record length | Standard | Repeat: 1.25 MPoints, Single: 6.25 MPoints |
| | /M1, /M1S option | Repeat: 6.25 MPoints, Single: 25 MPoints |
| | /M2 option | Repeat: 12.5 MPoints, Single: 62.5 MPoints |

## Triggers

| | | |
|---|---|---|
| Trigger modes | | Auto, Auto Level, Normal, Single, N-Single |
| Trigger type, trigger source | A triggers | Edge: CH1 to CH4, Logic, EXT, LINE |
| | | Edge OR: CH1 to CH4 |
| | | Edge Qualified: CH1 to CH4, Logic, EXT |
| | | State: CH1 to CH4, Logic |
| | | Pulse width: CH1 to CH4, Logic, EXT |
| | | State width: CH1 to CH4, Logic |
| | | TV: CH1 to CH4 |
| | | Serial Bus |
| | | I²C (optional): CH1 to CH4, Logic |
| | | SPI (optional): CH1 to CH4, Logic |
| | | UART (optional): CH1 to CH4, Logic |
| | | CAN (optional): CH1 to CH4 |
| | | LIN (optional): CH1 to CH4 |
| | | User defined: CH1 to CH4 |
| | AB triggers | A Delay B: 10 ns to 10 s (Edge, Edge Qualified, State, Serial Bus) |
| | | A to B(N): 1 to $10^9$ (Edge, Edge Qualified, State, Serial Bus) |
| | | Dual Bus: Serial bus only |
| Trigger level setting range | CH1 to CH4 | ±4 div from center of screen |
| Trigger level setting resolution | CH1 to CH4 | 0.01 div (TV trigger: 0.1 div) |
| Trigger level accuracy | CH1 to CH4 | ±(0.2 div + 10% of trigger level) |
| Window Comparator | | Center/Width can be set on individual Channels from CH1 to CH4 |

## Display

| | |
|---|---|
| Display | 8.4-inch TFT color liquid crystal display<br>1024 x 768 (XGA) |

## Functions

| | | |
|---|---|---|
| Waveform acquisition modes | | Normal, Envelope, Average |
| High Resolution mode | | Max. 12 bit (the resolution of the A/D converter can be improved equivalently by placing a bandwidth limit on the input signal.) |
| Sampling modes | | Real time, interpolation, repetitive sampling |
| Accumulation | | Select OFF, Intensity (waveform frequency by brightness), or Color (waveform frequency by color) |
| | Accumulation time | 100 ms to 100 s, Infinite |
| Roll mode | | Enabled at 100 ms/div to 500 s/div (depending on the record length setting) |
| Zoom function | | Two zooming windows can be set independently (Zoom1, Zoom2) |
| | Zoom factor | x2 to 2.5 points/10div (in zoom area) |
| | Scroll | Auto Scroll |
| | Search functions | Edge, Edge Qualified, State, Pulse Width, State Width<br>I²C (option), SPI (option), UART (option), CAN (option), LIN (option) |
| History memory | Max. data | 2,500 (record length 1.25 kPoints, with standard)<br>10,000 (record length 1.25 kPoints, with /M1 or /M1S option)<br>20,000 (record length 1.25 kPoints, with /M2 option) |
| | History search | Select Rect, WAVE, Polygon, or Parameter mode |
| | Replay function | Automatically displays the history waveforms sequentially |
| | Display | Specified or average waveforms |
| Cursor | Types | ΔT, ΔV, ΔT & ΔV, Marker, Degree |
| Snapshot | | Currently displayed waveform can be retained on screen |

## Computation & Analysis Functions

| | | |
|---|---|---|
| Parameter measurement | | MAX, MIN, P-P, HIGH, LOW, Rms, Mean, Sdev, IntegTY+, IntegTY, +OVER, -OVER, Pulse Count, Edge Count, V1, V2, ΔT, Freq, Period, Avg Freq, Avg Period, Burst, Rise, Fall, +Width, -Width, Duty, Delay |
| Statistical computation of parameters | | Min, Max, Ave, Cnt, Sdev |
| Statistics modes | | Continuous, Cycle, History |
| Trend/Histogram display of wave parameters | | Up to 2 trend or histgram display of specied wave parameters |
| Computations (MATH) | | +, -, x, Filter (Delay, Moving Avg, IIR Lowpass, IIR Highpass), Integ, Count, user defined math (optional) |
| Computable no. of traces | | 2 (Math1, Math2) (1 trace for 2ch model) |
| Max. computable memory length | | Standard model: 6.25 MPoints, /M1,/M2 memory expansion option: 25 MPoints, /M2 expansion option: 62.5 MPoints |
| Reference function | | Up to 2 traces (REF1/REF2) of saved waveform data can be displayed and analyzed |
| Action ON trigger | Modes | All Condition, Zone, Param, Rect, Polygon |
| | Actions | Buzzer, Print, Save, Mail, GO-NOGO out |
| Analysis | XY | Displays XY1, XY2 and T-Y simultaneously |
| | FFT | Number of points: 1.25k, 12.5k, 125k, 250k<br>Window functions: Rectangular, Hanning, Flat-Top<br>FFT Types: PS (LS, RS, PSD, CS, TF, CH are available with /G2 option) |
| | Histogram | Displays a histogram of acquired waveforms |
| | User-defined math (/G2 Options) (Release soon) | The following operators can be arbitrarily combined in equations:<br>+, -, x, /, SIN, COS, TAN, ASIN, ACOS, ATAN, INTEG, DIFF, ABS, SQRT, LOG, EXP, LN, BIN, DELAY, P2 (power of 2), PH, DA, MEAN, HLBT, PWHH, PWLL, PWHL, PWLH, PWXX, FV, DUTYH, DUTYL, |
| | | The maximum record length that can be computed is as well as standard math functions |
| Power supply analysis function (/G4 option) | | Propagation time difference correction (deskew): The difference in propagation time of voltage and current probe signals can be automatically or manually corrected. Correction range is ±100 ns (0.01 ns resolution) |
| (Release soon) | | Automated measurement of power supply analysis parameters:<br>Power supply analysis parameters can be measured automatically and simultaneously with standard measurement items.<br>(Automated measurement of two areas is also possible)<br>Waveform computation of power supply analysis parameters:<br>Wp, Wp+, Wp-, Abs.Wp., P, P+, P-, Abs.P, Z(Impedance)<br>Display of the Area of Voltage-Current Operation: Allows for checking whether it is within the ASO(area of safe operation)<br>Harmonic analysis:<br>Harmonic current emission standard IEC 61000-3-2 edition 2.2(EN61000-3-2 (2000))<br>Trend display: |

## I²C Bus Signal Analysis Functions (/F2 & /F3 Options)

| | | |
|---|---|---|
| Applicable bus | I²C bus | Bus transfer rate: 3.4 Mbit/s max.<br>Address mode: 7 bit/10 bit |
| | SM bus | Complies with System Management Bus |
| I²C Trigger modes | | Every Start, Address & Data, Non-Ack, General Call, Start Byte, HS Mode |
| Analyzable signals | | Assignable to CH1 to CH4, Logic input, or M1 to M2 |
| Analysis results displays | | Analysis no., time from trigger position (Time (ms)),1st byte address, 2nd byte address, R/W, Data, Presence/absence of ACK, information |
| Auto setup function | | Auto setting of bit rate, threshold value, time axis scale, voltage axis scale, and display of analysis results |
| Analyzable no. of data | | 300,000 bytes max. |
| Search function | | Searches data that matches specified address pattern, data pattern, and acknowledge bit condition |
| Analysis results save function | | Analysis list data can be saved to CSV-format files |

## SPI Bus Signal Analysis Functions (/F2 & /F3 Options)

| | |
|---|---|
| Trigger types | 3 wire/4 wire<br>After assertion of CS, compares data after arbitrary byte count and triggers. |
| Byte order | MSB/LSB |
| Auto setup function | Auto setting of bit rate, threshold value, time axis scale, voltage axis scale, and display of analysis results |
| Analyzable no. of data | 300,000 bytes max. |
| Decode bit length | Specify data interval (1 to 32 bits), decode start point, and data length |
| Analysis results displays | Analysis no., time from trigger position (Time (ms)), Data 1, Data 2 |
| Auxiliary analysis functions | Data search function |
| Analysis result save function | Analysis list data can be saved to CSV-format files |

## UART Bus Signal Analysis Functions (/F1 & /F3 Options)

| | |
|---|---|
| Bit rate | 1200 bps, 2400 bps, 4800 bps, 9600 bps,19200 bps, user defined (an arbitrary bit rate from 1 k to 1 Mbps with resolution of 100 bps) |
| Data format | Select a data format from the following 8 bit (Non Parity) / 7 bit Data + Parity / 8 bit + Parity |
| UART Trigger modes | Every Data, Data, Error (Framing, Parity) |
| Analyzable signals | Select CH1 to CH4, logic input, or M1 to M2 |
| Auto setup function | Auto setting of bit rate, threshold value, time axis scale, voltage axis scale, and display of analysis results |
| Analyzable no. of frames | 300,000 frames max. |
| Analysis results displays | Analysis no., time from trigger position (Time(ms)), Data (Bin, Hex) display, ASCII display, and Information. |
| Auxiliary analysis functions | Data search |
| Analysis result save function | Analysis list data can be saved to CSV-format files |

## CAN Bus Signal Analysis Functions (/F4 Option)

| | |
|---|---|
| Applicable bus | CAN version 2.0A/B, Hi-Speed CAN (ISO11898), Low-Speed CAN (ISO11519-2) |
| Bit rate | 1 Mbps/500 kbps/250 kbps/125 kbps/83.3 kbps/33.3 kbps<br>User defined ( an arbitrary bit rate from 10.0 kbps to 1.000 Mbps with resolution of 100 bps) |
| CAN bus Trigger modes | SOF, ID/DATA, ID OR, Error(enabled when loading physical values/symbol definitions) |
| Auto setup function | Auto setting of bit rate, threshold value, time axis scale, voltage axis scale, and display of analysis results |
| Analyzable no. of frames | 100,000 frames max. |
| Analysis results displays | Analysis no., time from trigger position (Time (ms)), Frame type, ID, DLC, Data, CRC, presence/absence of Ack, information |
| Auxiliary analysis functions | Data search and field jump functions |
| Analysis result save function | Analysis list data can be saved to CSV-format files |

## LIN Bus Signal Analysis Functions (/F4 Option)

| | |
|---|---|
| Applicable bus | LIN Rev. 1.3, 2.0 |
| Bit rate | 19.2 kbps, 9.6 kbps, 4.8 kbps, 2.4 kbps, 1.2 kbps<br>User defined (an arbitrary bit rate from 1000 bps to 200 kbps with resolution of 100 bps) |
| LIN bus Trigger modes | Break Synch, ID/DATA, ID OR, and ERROR trigger |
| Auto setup function | Auto setting of bit rate, threshold value, time axis scale, voltage axis scale, and display of analysis results |
| Analyzable no. of frames | 100, 000 frames max. |
| Analysis results displays | Analysis no., time from trigger position (Time (ms)), ID, ID-Field, Data, CheckSum, information |
| Auxiliary analysis functions | Data search and field jump functions |
| Analysis result save function | Analysis list data can be saved to CSV-format files |

## GP-IB (/C1 & /C11 Options)

| | |
|---|---|
| Electromechanical specifications | Conforms to IEEE std. 488-1978 (JIS C 1901-1987) |
| Protocol | Conforms to IEEE std. 488.2-1987 |

## Auxiliary Input

| | |
|---|---|
| Rear panel I/O signal | External trigger input(DLM20x2: front panel), external trigger output, GO-NOGO output, video output |
| Probe interface terminal (front panel) | 4 terminals (DLM20x4) |
| Probe power terminal (rear panel) | 2 terminals (/P2 option)<br>4 terminals (/P4 option) |

## Built-in Storage

| | |
|---|---|
| Capacity | 100MB |

## Built-in Printer (/B5 Option)

| | |
|---|---|
| Built-in printer | 112 mm wide, monochrome, thermal |

## USB Peripheral Connection Terminal

| | |
|---|---|
| Connector | USB type A connector x 2 (front panel x 1, rear panel x 1) |
| Electromechanical specifications | USB 2.0 compliant |
| Supported transfer standards | Low Speed, Full Speed, High Speed |
| Supported devices | USB Printer Class Ver. 1.0 compliant EPSON/HP (PCL) ink jet printers USB Mass Storage Class Ver. 1.1 compliant mass storage devices* Please contact your local Yokogawa sales office for model names of verified devices |

## USB-PC Connection Terminal

| | |
|---|---|
| Connector | USB type B connector x 1 |
| Electromechanical specifications | USB 2.0 compliant |
| Supported transfer standards | High Speed, Full Speed |
| Supported class | USBTMC-USB488 (USB Test and Measurement Class Ver. 1.0) |

## Ethernet (/C10 & /C11 Options)

| | |
|---|---|
| Connector | RJ-45 connector x 1 |
| Transmission methods | Ethernet (1000BASE-T/100BASE-TX/10BASE-T) |
| Supported services | Server: FTP, VXI-11<br>Client: SMTP, SNTP, LPR, DHCP, DNS |

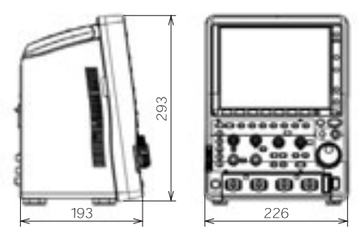
## General Specifications

| | |
|---|---|
| Rated supply voltage | 100 to 240 VAC |
| Rated supply frequency | 50 Hz/60 Hz |
| Maximum power consumption | 170 VA |
| External dimensions | 226 (W) x 293 (H) x 193 (D) mm (when printer cover is closed, excluding protrusions) |
| Weight | Approx.4.2kg With no options |
| Operating temperature range | 5 ˚C to 40 ˚C |

*1 Measured under standard operating conditions after a 30-minute warm-up followed by calibration.
Standard operating conditions: Ambient temperature: 23˚C ±5˚C
Ambient humidity: 55 ±10% RH
Error in supply voltage and frequency: Within 1% of rating
*2 Value in the case of repetitive phenomenon. The frequency bandwidth of a single-shot phenomenon is the smaller of the two values, DC to sampling frequency/2.5 or the frequency bandwidth of the repetitive phenomenon.
*3. When the input section is shorted, the acquisition mode is set to Normal, accumulation is OFF, and the probe attenuation is set to 1:1.
*4. Acquisition rate does not vary with an increase or decrease in channels.

## External Dimensions

Unit: mm



## Model and Suffix Codes

| Model | Suffix code | Description |
|---|---|---|
| 710105 | | Digital Oscilloscope DLM2022 2ch, 200MHz |
| 710110*1 | | Mixed Signal Oscilloscope DLM2024 4ch, 200MHz |
| 710115 | | Digital Oscilloscope DLM2032 2ch, 350MHz |
| 710120*1 | | Mixed Signal Oscilloscope DLM2034 4ch, 350MHz |
| 710125 | | Digital Oscilloscope DLM2052 2ch, 500MHz |
| 710130*1 | | Mixed Signal Oscilloscope DLM2054 4ch, 500MHz |
| Power cable | -D | UL/CSA standard |
| | -F | VDE standard |
| | -Q | BS standard |
| | -R | AS standard |
| | -H | GB standard |
| Help language | -HE | English Help (Menu and Panel) |
| | -HC | Chinese Help (Menu and Panel) |
| | -HK | Korean Help (Menu and Panel) |
| | -HG | German Help (Menu and Panel) |
| | -HF | French Help (Menu and Panel) |
| | -HI | Italian Help (Menu and Panel) |
| | -HS | Spanish Help (Menu and Panel) |
| Option | /LN | No switchable logic input (4 ch model only) |
| | /B5 | Built-in printer |
| | /M1*2 | "Memory expansion option (4 ch model only)<br>During continuous measurement: 6.25 Mpoints; Single mode:<br>25 Mpoints (when interleave mode ON: 62.5 Mpoints)" |
| | /M2*2 | "Memory expansion option (4 ch model only)<br>During continuous measurement: 12.5 Mpoints; Single mode:<br>62.5 Mpoints (when interleave mode ON: 125 Mpoints)" |
| | /M1S | "Memory expansion option (2 ch model only)<br>During continuous measurement: 6.25 Mpoints; Single mode:<br>25 Mpoints (when interleave mode ON: 62.5 Mpoints)" |
| | /P2*3 | Probe power for 2 ch models |
| | /P4*3 | Probe power for 4 ch models |
| | /C1*4 | GP-IB Interface |
| | /C10*4 | Ethernet Interface |
| | /C11*4 | GP-IB + Ethernet Interface |
| | /G2*5 | User defined math (4 ch model only) (Release soon) |
| | /G4*5 | "Power supply analysis function (includes /G2) (4 ch model only)<br>(Release soon)" |
| | /F1*6 | UART trigger and analysis (4 ch model only) |
| | /F2*6 | $I^2C$ + SPI trigger and analysis (4 ch model only) |
| | /F3*6 | UART + $I^2C$ + SPI trigger and analysis (4 ch model only) |
| | /F4 | CAN + LIN trigger and analysis (4 ch model only) |

*1: Logic probes sold separately. Please order the model 701988/701989 accessory logic probes separately.
*2: Only one of these may be selected at a time.
*3: Specify this option when using current probes or other differential probes such as models 701920 or 701922.
*4: Only one of these may be selected at a time.
*5: Only one of these may be selected at a time.
*6: Only one of these may be selected at a time.

## Standard Main Unit Accessories

| Part Name | Quantity |
|---|---|
| Power cord (with 3-prong to 2-prong adapter) | 1 |
| "Passive probe, model 701938 (200 MHz, 1.5 m)<br>For models 710105, 710110" | Per number of channels |
| "Passive probe, model 701939 (500 MHz, 1.3 m)<br>For models 710115, 710120, 710125, 710130" | Per number of channels |
| Protective front cover | 1 |
| Soft carrying case for probes | 1 |
| Printer roll paper (for /B5 option) | 1 roll |
| User's manuals | 1 set |

## Accessory Models

| Name | Model | Specification |
|---|---|---|
| Logic probe (**PBL100**) | 701988 | 1 MΩ input resistance, toggle frequency of 100 MHz |
| Logic probe (**PBL250**) | 701989 | 100 kΩ input resistance, toggle frequency of 250 MHz |
| Passive probe | 701938 | 10 MΩ (10:1), 200 MHz, 1.5 m |
| Passive probe | 701939 | 10 MΩ (10:1), 500 MHz, 1.2 m |
| FET Pprobe | 700939 | DC to 900 MHz bandwidth/2.5MΩ/1.8pF |
| Active probe (PBA1000) | 701912 | DC to 1 GHz bandwidth/100kΩ/0.9pF |
| 100:1 voltage probe | 701944 | DC to 400 MHz, 1.2 m, 1000 Vrms |
| 100:1 voltage probe | 701945 | DC to 250 MHz, 3 m, 1000 Vrms |
| Differential probe | 701921 | DC to 100 MHz bandwidth/max. ±700 V |
| Differential probe | 701922 | DC to 200 MHz bandwidth/max. ±20 V |
| Differential probe (PBDH1000) | 701924 | DC to 1 GHz bandwidth/1MΩ/max. ±25 V |
| Differential probe | 700924 | DC to 100 MHz bandwidth/max. ±1400 V |
| Differential probe | 700925 | DC to 15 MHz bandwidth/max. ±500 V |
| Differential probe | 701920 | DC to 500 MHz bandwidth/max. ±12 V |
| Current probe (PBC050) | 701929 | DC to 50 MHz bandwidth, 30 Arms |
| Current probe (PBC100) | 701928 | DC to 100 MHz bandwidth, 30 Arms |
| Current probe | 701930 | DC to 10 MHz bandwidth, 150 Arms |
| Current probe | 701931 | DC to 2 MHz bandwidth, 500 Arms |
| Mini clip converter | 700971 | For models 701938 and 701939 |
| BNC adapter | 700972 | For models 701938 and 701939 |
| PCB adapter | 366945 | For models 701938 and 701939, 10 per set |
| Solder-in adapter | 366946 | For models 701938 and 701939, 1 adapter,<br>red/black cables (3 ea.) |
| Printer roll paper | B9988AE | Lot size is 10 rolls, 10 meters each |
| Xviewer | 701992-SP01 | For DL/WE series, standard version |
| | 701992-GP01 | For DL/WE series, with MATH functions |
| Probe stand | 701919 | Round base, 1 arm |
| Carrying case | 701964 | Also for DL1600/DL1700E series |

**NOTE**

"Before operating the product, read the users manual thoroughly for proper and safe operation."

## Yokogawa's Approach to Preserving the Global Environment

- Yokogawa's electrical products are deloped and produced in facilities that have received ISO14001 approval.
- In order to protect the glovel environment,Yokogawa's electrical products are designed in accordance with Yokogawa's Environmentally Friendy Product Desigh Guidelines and Product Design Assessment Criteria.