# Oscilloscopes <br> Bench Type 



## 72-8725 Technical Specification (4 Channels) :

| Sample Range |  |  |
| :--- | :---: | :---: |
| Sample Method | Real Time | Equivalent |
| Sample Rate | $2 \mathrm{GS} / \mathrm{s}$ | $50 \mathrm{GS} / \mathrm{s}$ |
| Average | All the channel achieve to sample rate at N times, N times can select on 2, 4, 8, 16, 32, <br> 64,128 and 256 |  |


| Input |  |
| :--- | :--- |
| Input Coupling | $\mathrm{DC}, \mathrm{AC}$ or Grounding (AC, DC, GND) |
| Input Impedance | $1 \mathrm{M} \Omega \pm 2 \%$ and $16 \pm 3 \mathrm{pF}$ |
| Probe Attenuates Coefficient Setting | $1 \times, 10 \times, 100 \times, 1,000 \times$ |
| Maximum Input Voltage | 400 V (DC +AC Peak, $1 \mathrm{M} \Omega$ input impedance) |
| Channel Time Delay (Typical) | 150 ps |


| Horizontal |  |
| :---: | :---: |
| Interpolation | Sin (x) / $x$ |
| Records Length | 1024 k |
| Storage Depth | 24 k (Max) |
| Equivalent Storage Depth (double time base) | 60 M pts |
| Scan Range (s/div) | ```1 ns / div - 50 s / div (300 MHz) 2 ns / div - 50 s / div (200 MHz, 150 MHz) 5 ns / div-50 s / div (100 MHz) Press 1-2-5 enter``` |
| Sampling Range and Delay Timing Accuracy | $\pm 50 \mathrm{ppm}$ (Any One $\geq 1 \mathrm{~ms}$ time interval) |
| Time Interval ( $\Delta \mathrm{T}$ ) Accuracy (Full bandwidth) | Single Time $: \pm(1$ sampling time interval $+50 \mathrm{ppm} \times$ Reading $+0.6 \mathrm{~ns})$ <br> $>16$ mean Value $: \pm(1$ sampling time interval $+100 \mathrm{ppm} \times$ Reading $+0.4 \mathrm{~ns})$ |


| Vertical |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| Model Number |  |  |  |
| A / D Converter (A / D) | 8 bits resolution |  |  |
| Deflection Factory (V / div) | $2 \mathrm{mV} /$ div $-5 \mathrm{~V} /$ div (at the input BNC) |  |  |
| Position Range | $\pm 5$ div |  |  |

[^0]
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[^1]www.mcmelectronics.com

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| Triggering Frequency |  |  |
| :---: | :---: | :---: |
| Reading Determination | 6 Digits |  |
| Accuracy | $\pm 51 \mathrm{ppm}$ |  |
| Frequency Range | AC coupling, from 10 Hz to full |  |
| Trigger Type | Edge / Pulse |  |
| Measurement |  |  |
| Cursors | Manual made | Cursor voltage diffe |
|  |  | $\Delta \mathrm{T}$ Reverse reading |
|  | Chase Mode | The Voltage Value |
| Automatic Measurement |  | Peak to peak, maxi shoot, frequency, cycle, delay time and |
| Mathematics |  | Add, Subtract, Multip |
| Storage Waveform |  | 10 waveforms, 10 |
| FFT | Window | Hanning, Hamming |
|  | Sampling Point | 1024 Pts |
| X - Y Phase difference | Phase difference | $\pm 3$ Degrees |
| Multimeter Function |  |  |
| DC Voltage | Range $: 400 \mathrm{mV}, 4,40,400 \mathrm{~V}$ <br> Accuracy $: \pm(1 \%+5$ Digits $)$ |  |
| AC Voltage $(40 \mathrm{~Hz} \sim 400 \mathrm{~Hz})$ | Range $: 400 \mathrm{mV}, 4 \mathrm{~V}, 40 \mathrm{~V}, 400 \mathrm{~V}$ <br> Accuracy $: \pm(1.2 \%+5$ Digits $)$ |  |
| Resistance | Range $: 400 \Omega, 4 \mathrm{k} \Omega, 40 \mathrm{k} \Omega, 400 \mathrm{k} \Omega, 4 \mathrm{M} \Omega,, 40 \mathrm{M} \Omega$ <br> Accuracy $: \pm(1.5 \%+5$ Digits $)$ |  |
| Continuity Buzzer | < $70 \Omega$ |  |
| Diode | Positive decline 0.5 to 0.8 V |  |
| DC Current | Range <br> Accuracy <br> Range <br> Accuracy | $\begin{aligned} & \mathrm{nA}, 40 \mathrm{~mA}, 400 \mathrm{~mA} \\ & 1 \%+5 \text { Digits) } \\ & 1.5 \%+5 \text { Digits) } \end{aligned}$ |


| Display |  |
| :--- | :--- |
| Display Type | 5.7 inch LCD display |
| Display Resolution | $320 \times$ RGB $\times 240$ (TFT) |
| LCD | Colour |
| Backlight | 300 nit |
| Language Support | Chinese, English |
|  |  |
| Voltage Output (Typical) | About 3 V, Peak value $\geq 1 \mathrm{M} \Omega$ |
| Frequency (Typical) | 1 kHz |

[^2]
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| Ports |  |
| :--- | :--- |
| Standard | $1 \times$ USB DEVICE <br> $1 \times$ USB HOST <br>  <br>  <br> Optioneter Host |
| Optional | GPIB and LAN |


| Power |  |
| :--- | :--- |
| Power Voltage | $100-240 \mathrm{~V}$ ac RMs, $45-440 \mathrm{~Hz}$, CAT II |
| Power Consumption | Less than 50 VA |
| Fuse | F1.6 AL 250 V <br> Locate and nearly In power socket |


| Environment |  |
| :---: | :---: |
| Temperature | Operating Environment : $0^{\circ} \mathrm{C}$ to $+40^{\circ} \mathrm{C}$ |
|  | Non-Operating Environment : $-20^{\circ} \mathrm{C}$ to $+60^{\circ} \mathrm{C}$ |
| Cool Down Method | Auto cool down |
| Temperature | $\begin{aligned} & +10^{\circ} \mathrm{C} \text { to }+30^{\circ} \mathrm{C}: \leq 95 \% \pm 5 \% \mathrm{RH} \\ & +30^{\circ} \mathrm{C} \text { to }+30^{\circ} \mathrm{C}: \leq 75 \% \pm 5 \% \mathrm{RH} \end{aligned}$ |
|  | $\begin{aligned} & +10^{\circ} \mathrm{C} \text { to }+30^{\circ} \mathrm{C}: \leq 95 \% \pm 5 \% \mathrm{RH} \\ & +30^{\circ} \mathrm{C} \text { to }+30^{\circ} \mathrm{C}: \leq 75 \% \pm 5 \% \mathrm{RH} \end{aligned}$ |
| High Temperature | Operating 3,000 * |
|  | Non-Operating 15,000 * |


| Specification |  | Widen |
| :--- | :--- | :--- |
| Size (For Reference only) | Height | 177 mm |
|  | Depth | 147 mm |
|  | Weight without gift box | 3.8 kg |
|  | with Gift Box | 6.5 kg |


| IP Protection | IP2X |
| :--- | :--- |
| Calibration Period | One Year (Recommendation) |

## Part Number Table

| Description | Part Number |
| :---: | :---: |
| DSO, $100 \mathrm{MHZ}, 4 \mathrm{CH}, 2 \mathrm{GS} / \mathrm{S}, 1024 \mathrm{~K}$ PTS | $72-8725$ |


[^0]:    www.element14.com
    www.farnell.com
    www.newark.com
    www.cpc.co.uk
    
    www.mcmelectronics.com

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