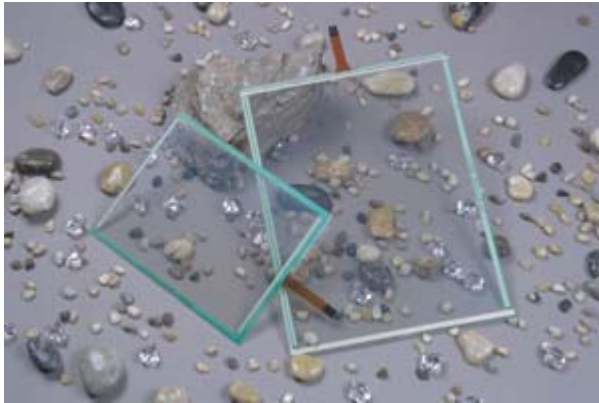# 4-Wire Resistive Touch Screen

●How it works

4-Wire resistive touch screens are the preferred choice for low cost applications. It consists of a conductive bottom layer (ITO Glass or Film) and a conductive top layer (ITO Film). The two layers are suspended apart by many tiny clear spacer dots. When the top ITO Film layer is touched contact is made with the bottom layer and a voltage charged by the touch controller is applied to the bottom layer's electrodes. The X coordinate of the touch point is detected by measuring the voltage through the top ITO layer and the Y coordinate of the touch point can be measured in the same way by the changing voltage input of the bottom ITO layer.

●Specification

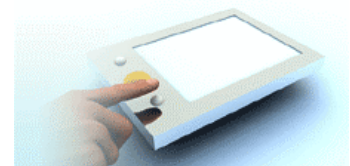|	
Circuit Rating	5VDC @ 35mA
Light Transmission	Film + Film 77%, Film + Glass 83%
Surface Hardness	3H
Life Expectancy	> 1 million touches on a single point
Resolution	4096 x 4096
Contact Bounce	<5ms
Linearity	1.5% (<1.0% by Request)
Operating Force	10g ~ 100g
Operating Temperature	-10°C ~ +60°C
Storage Temperature	-20°C ~ +70°C
Choice of Glass Substrate thickness	0.7mm, 1.1mm, 2.0mm, 3.0mm
Choice of Glass Substrate	Normal, Chemically Strengthened, Acrylic*

*Custom only

●Highlights & Benefits

- Large range of sizes 2.8" diagonal through to 21.0" diagonal incorporating all the popular display sizes in between.
- Input flexibility – Finger (gloved or un-gloved), stylus, pen, credit card (any non-sharp pointing device).
- FPC tail technology surpasses those of our competitors.
- FPC has lower resistance and is more flexible than PET or ITO film used by our competitors.
- Excellent optical performance even with anti-glare hard coating.
- Smallest spacer dots (0.035mm) in the industry.
- Haze < 6% (best optical performance in the industry).
- Various choices of surface treatments – Anti-Newton Ring, Anti-Glare, Special Chemical Hard Coating for improved performance in hostile environments.
- Controller Boards for Serial RS-232C and USB interfaces including full cabling connections and windows driver software.

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●Standard Models

Model No.	Spec.	External Dimension	View Area Dimension	Active Area Dimension
EE-0288-IN-W4R	2.8"In	70.000x55.000 mm 2.76"x2.17"	59.600x46.100 mm 2.35"x1.81"	58.000x44.000 mm 2.28"x1.73"
EE-0387-IN-W4R	3.8" In	89.400x69.400 mm 3.52"x2.73"	80.900x60.980 mm 3.19"x2.40"	79.900x59.980 mm /3.15"x2.36"
EE-0423-IN-W4R	4.2" In	94.800x69.600 mm 3.73"x2.74"	88.800x61.600 mm 3.50"x2.43"	86.800x59.600 mm 3.42"x2.35"
EE-0477-IN-W4R	4.7"In	110.74x089.41 mm 4.36"x3.52"	101.09x76.960 mm 3.98"x3.03"	98.09x73.9600 mm 3.86"x2.91"
EE-0585-IN-W4R	5.8"In	138.00x108.00 mm 5.43"x4.25"	118.00x89.000 mm 4.65"x3.50"	116.00x87.000 mm 4.57"x3.43"
EE-0585-IN-W4R-B	5.8"In	138.00x108.00 mm 5.43"x4.25"	118.00x89.000 mm 4.65"x3.50"	116.00x87.000 mm 4.57"x3.43"
EE-0585-IN-W4R-C	5.8"In	141.00x104.70 mm 5.56"x4.12"	122.00x93.850 mm 4.80"x3.69"	115.17x86.370 mm 4.53"x3.40"
EE-0657-IN-W4R	6.5"In	156.00x120.00 mm 6.14"x4.72"	136.00x100.00 mm 5.35"x3.94"	134.000x98.00 mm 5.28"x3.86"
EE-0747-IN-W4R	7.4"In	171.90x127.40 mm 6.77"x5.01"	148.90x112.40 mm 5.86"x4.43"	145.90x109.40 mm 5.74"x4.31"
EE-0846-IN-W4R	8.4"In	208.00x152.00 mm 8.19"x5.98"	176.00x133.00 mm 6.93"x5.24"	171.00x128.00 mm 6.73"x5.04"
EE-0846-IN-W4R-B	8.4"In	188.98x141.73 mm 7.44"x5.58"	173.98x131.32 mm 6.85"x5.17"	172.21x129.54 mm 6.78"x5.10"
EE-0945-IN-W4R	9.4"In	234.00x174.00 mm 9.21"x6.85"	211.00x158.00 mm 8.31"x6.22"	196.00x148.00 mm 7.72"x5.83"
EE-1044-IN-W4R	10.4"In	237.00x180.00 mm 9.33"x7.09"	216.20x163.40 mm 8.51"x6.43"	212.00x159.40 mm 8.35"x6.28"
EE-1215-IN-W4R	12.1"In	271.00x205.00 mm 10.67"x8.07"	253.00x191.00 mm 9.96"x7.52"	248.00x186.00 mm 9.76"x7.32"
EE-1503-IN-W4R	15"In	330.00x255.00 mm 13.00"x10.04"	310.00x235.00 mm 12.20"x9.25"	303.00x227.00 mm 11.93"x8.94"
EE-1503-IN-W4R-B	15"In	320.00x243.00 mm 12.60"x9.57"	300.00x228.00 mm 11.81"x8.98"	285.00x216.00 mm 11.22"x8.50"
ΞE-1503-EX-W4R-E	15"Ex	311.00x254.00 mm 12.24"x10.00"	293.00x233.00 mm 11.54"x9.17"	284.00x224.00 mm 11.18"x8.82"
EE-1701-IN-W4R-C	17"In	362.00x278.00 mm 14.25"x10.94"	340.00x260.00 mm 13.39"x10.24"	320.00x238.00 mm 12.60"x9.37"
EE-1701-IN-W4R-F	17"In	366.00x294.50 mm 14.40"x11.60"	342.00x274.50 mm 13.46"x10.81"	334.00x266.50 mm 13.15"x10.49"
ΞE-1701-IN-W4R-G	17"In	358.50x296.50 mm 14.11"x11.68"	341.90x274.40 mm 13.46"x10.80"	337.92x270.34 mm 13.30"x10.64"
ΞE-1701-EX-W4R-C	17"In	360.50x290.00 mm 14.19"x11.41"	343.00x268.00 mm 13.50"x10.55"	332.00x257.00 mm 13.07"x10.12"
EE-1818-IN-W4R	18.1"In	388.00x313.00 mm 15.28"x12.32"	363.00x291.00 mm 14.29"x11.46"	357.00x285.00 mm 10.06"x11.22"
EE-1908-IN-W4R	19"In	395.00x300.00 mm 15.56"x11.81"	375.00x284.60 mm 14.76"x11.20"	360.00x269.60 mm 14.17"x10.61"
EE-2106-IN-W4R	21"In	438.00x331.00 mm 17.24"x13.03"	416.60x315.00 mm 16.40"x12.40"	402.60x301.60 mm 15.85"x11.87"