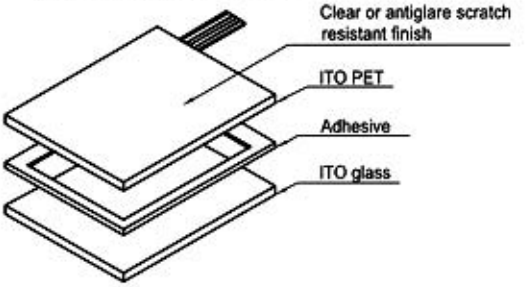
Backing panel : All AMT touch screens are supplied with either ITO glass of various thicknesses, or glass/acrylic as backing panel.

Front surface : AMT touch screens have a scratch resistance hardcoat on the front surface. Standard stock touch screens have antiglare finish. Clear type finish or other matte level coating is the options.

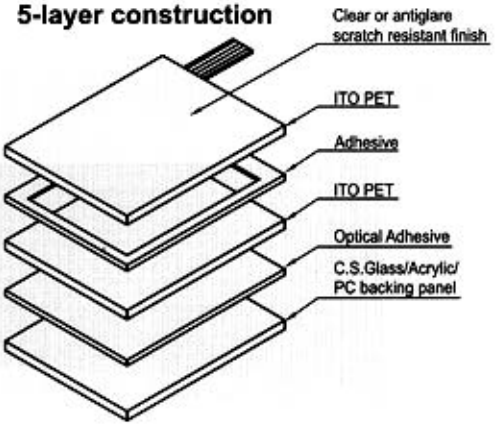
Tail and Terminations : AMT touch screens have different kinds of tail designed, integral tail, FPC and HSC tail. For the terminations, it could be a connector (AMP, Berg or AMP compatible) or ZIF type.

Construction : AMT touch screens offer two kinds of construction, 5-layer and 3-layer. 5-layer touch screen is in the structure of two ITO films with chemical strengthened glass, PC or acrylic as backing panel. 3-layer touch screen is in ITO film stuck directly on ITO glass structure. Although they preserve different advantages, either one can be used for touch panel applications that a finger or stylus can activate.

3-layer construction



5-layer construction



Specifications :

Type : Analog Resistive or Matrix type.

ITO Glass : Thickness: 0.7mm, 1.1mm, 1.57mm; 1.8mm, 2.3mm or 3.0mm

ITO Film : Thickness: 0.188mm or 0.175mm

Tail : Integral, FPC or HSC three types designed

Electrical Specifications :

Circuit resistance (open) : >10MΩ, @DC25V

Circuit resistance (closed) : Analog: <2MΩ

Matrix: depend on circuit

Linearity: <1.5%

Contact Bounce: <10ms (for 4-, and 8-wire touch screen)

<15ms (for 5-wire touch screen)

Sheet Resistance of ITO

Analog: 200~800Ω/sq.

Matrix: 100~700Ω/sq.

Operating voltage: 5V (typical)

Contact current: <20mA

Environmental Specifications:

Operating Temperature: -10°C ~ 60°C

Storage Temperature: -20°C ~ 80°C

Humidity: Less than 90% RH during operating

At ambient humidity when storage

Mechanical Performance:

Activation method: Finger (gloved or ungloved), stylus

Activation Force: 10g - 80g

Surface Hardness: 3H & up

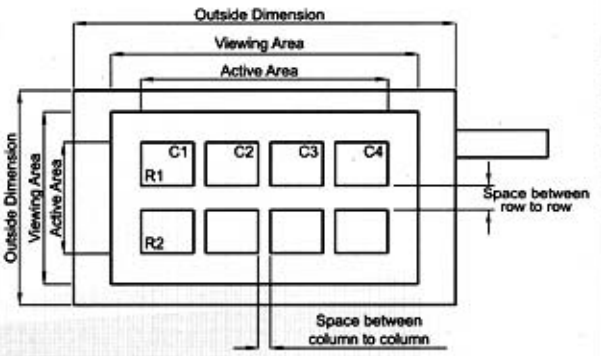
Durability: 10 million times of activation

Optical Performance:

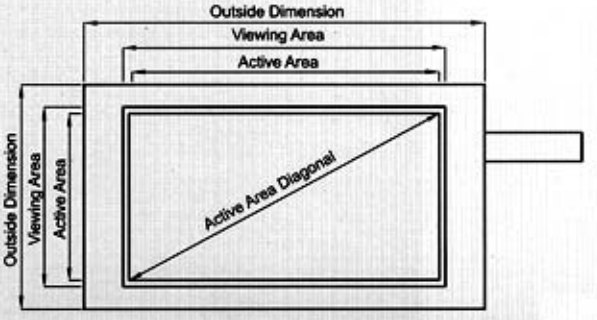
Visible Light Transmission: >80% for analog touch panel

>76% for matrix touch panel

Matrix Touch Screen



Analog Touch Screen



ELPROMA NL., PHONE +31 (0)343 - 518724, FAX +31 (0)343 - 512286