

Sensory screen panels (digital touch screens), digital command panels on their basis

A digital touch screen allows using a virtual keypad on a display (a so-called digital command panel). A virtual keypad has a variety of benefits: it can have any graphic design according to your preferences, colors and inscriptions can be easily changed even during operation, visual effects upon pressing can be created!

The main disadvantage of virtual keypads is the lack of tactile effect. However, our specialists have managed to solve this problem!

Let us introduce our invention: a digital touch screen **with tactile effect** (sensory screen panel).

A sensory screen panel is a transparent key matrix. It provides high reliability and does not require any special tools to process key pressing (a standard controller can be used).



Technical characteristics

Basic characteristics of sensory screen panels are listed in Table 1.

Table 1: Basic technical characteristics of sensory screen panels

Parameter	Value
Dimensions, mm	Up to 320x400 (21")
Thickness, mm	From 1,5
Operating temperature range, °C	-40 to +60
Vibration resistance	10-2000 Hz, 3g
Repeated shock resistance	15 g
Contact resistance, not more than, Ohm	3000
Insulation resistance, not less than, MOhm	1,0
Size of key matrix	Up to 15x15
Key pressing force, N	100-300
Key stroke, mm	0,5 - 1,0
Light transmittance, %	≥65
Number of key activations	Not less than 1 mln.
Ingress protection, not less than	IP-65
Resistance to aggressive media	solvents, acids, alkalis, oils, gasoline, diesel fuel, detergents and disinfectants