# *Storm* Interface — *2220 Vandal Resistant Keyboard*

Developed for use in kiosk applications this range of keyboards is suitable for use in exposed or hostile environments. Their construction is highly resistant to hard use and vandalism. They are sealed against water and dust to ensure reliable and responsive data entry in the most demanding situations.

For best resistance to vandalism, abuse and rough use install from the underside of a panel, with the operational face of the keyboard accessible through a rectangular aperture in the panel.
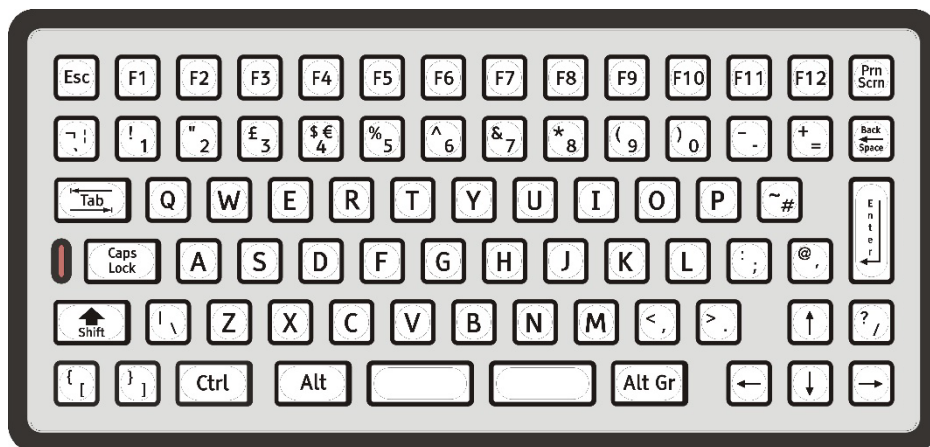


## INSTALLATION

### Underpanel

Required parts:
- Keyboard
- Underpanel Fix Kit
- 2mm panel with studs

Locate the gasket over the studs on the panel, then offer the keyboard up to the rear of the panel.
Fit the clips and M3 nuts over the studs and tighten.

Note the part number, serial number, and firmware for your records.

### On panel / surface use:

Required parts
- Keyboard
- Foot Kit

Fasten the feet to the underside of the keyboard
Place keyboard, feet down, onto flat surface to use

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2220 Keyboard - Vandal Resistant, Function Keys, High Contrast White Keys, 2.5m USB cable. Also available with metal keys

## Electrical

| | |
|---|---|
| Supply Requirements | **5V DC ±0.25V, 60mA** |
| Connectivity | **USB** |
| Compatibility | **Windows 10 or later** |

## Part Numbers

| | |
|---|---|
| 2220-55201 | **2230 KBD VR, WHITE KEY, USB WITH 2.5 M CABLE, UK LAYOUT** |
| 2220-35201 | **2230 KBD VR, METAL KEY,USB WITH 2.5 M CABLE, UK LAYOUT** |
| 2220-55202 | **2230 KBD VR, WHITE KEY, USB WITH 2.5 M CABLE, USA LAYOUT** |
| 2220-35202 | **2230 KBD VR, METAL KEY,USB WITH 2.5 M CABLE, USA LAYOUT** |

Other languages available on request, visit www.storm-interface.com

## Mechanical

| | |
|---|---|
| Operational Life | **4 million cycles (min) per key** |
| Keytop Travel | **1.5mm nominal** |
| Actuation Force | **100 grams nominal** |
| Key Pitch | **19mm** |

## Accessories

| | |
|---|---|
| 2200-FK000 | **Foot Kit for desktop usage** |
| 2210-MK000 | **Under Panel Fixing Kit** |

## Performance

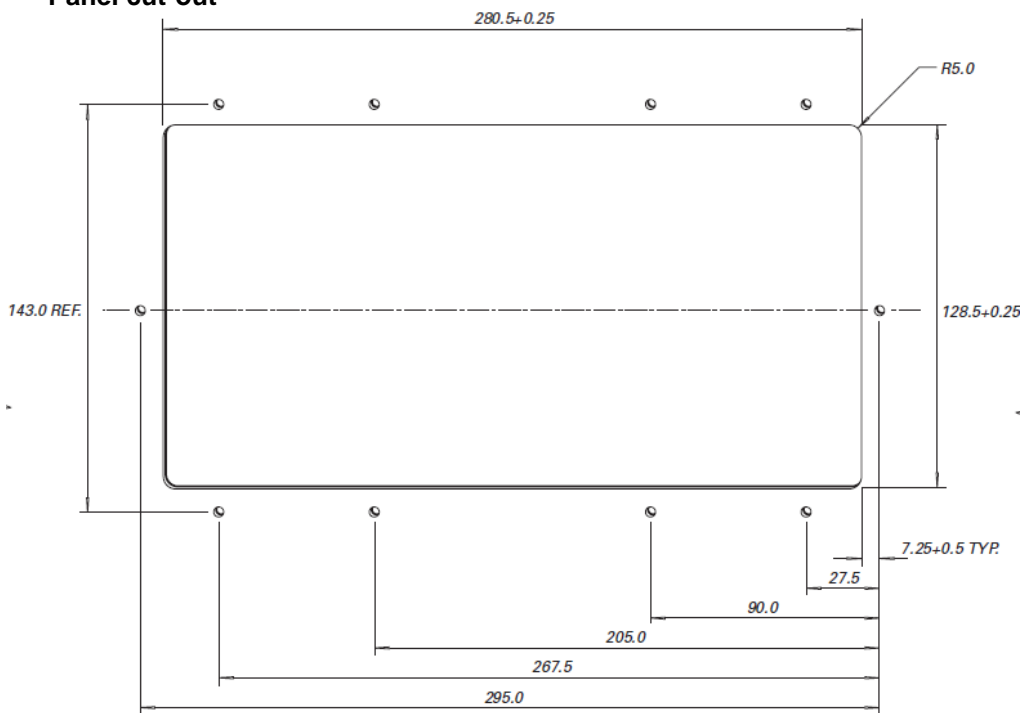| | |
|---|---|
| Operational Temp | **-20°C to 70°C** |
| Impact Rating | **20 Joules via 50mm dia. steel striker** |
| Vibration/Shock | **ETSI 300 019 5M3** |
| Water / Dust sealed | **IP65 (when fixed to suitable panel)** |
| Certification | **CE / FCC / UL** |

## Dimensions

| | |
|---|---|
| Overall sizes | **See following page** |
| Panel cut-out DXF | **Download .dxf and .stp files from** |
| Surface model STEP | **www.storm-interface.com** |

## Overall Dimensions
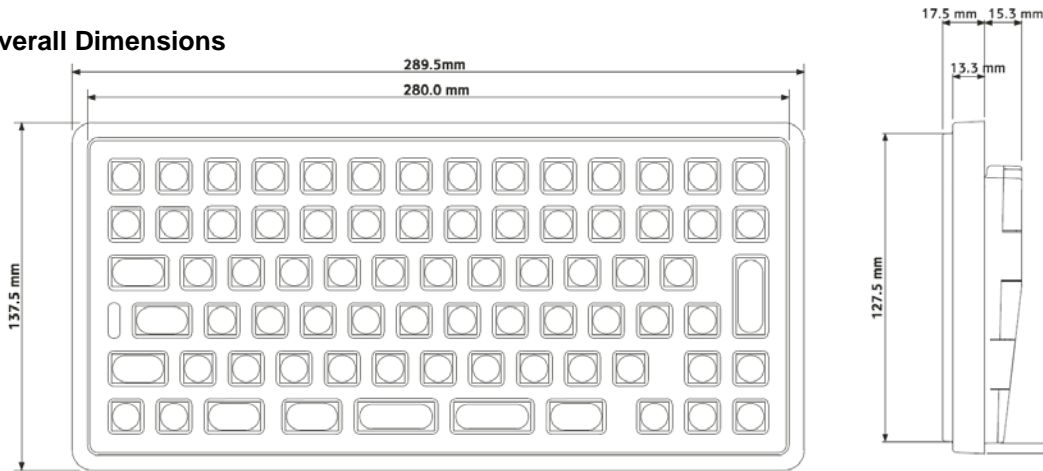


## Panel cut-out



View showing rear of panel with dimensions of stud positions and panel cut out details

All dimensions in mm.

M3 x 20mm long steel weld studs or equivalent

The 2220 Keyboard is designed to be secured underpanel with 10 brackets and lock nuts.  Torque to 25N.cm. Gasket to be positioned between keyboard and fixing panel prior to installation.

Please ensure a suitable panel material is used to support the keyboard. e.g. 1.6mm – 2.0mm steel.  This must provide sufficient rigidity for sealing keyboard to panel. The underside of the panel should be flat, clean, and free of debris

Whilst every effort is made to ensure details are correct at time of print, specifications are subject to change without notice
www.storm-interface.com

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