

700/900 Series – Sealed & Rugged Keypads

In demanding or hostile environments, a keyboard operator must be confident that data can be entered quickly and accurately. With this objective the keys move with a positive over-centre action ensuring rapid and reliable data entry even in the most extreme conditions.

Storm 700 & 900 Series keypads are supplied in 4, 12, 16, and 36 key configurations. The keypad's unique modular design enables combinations of keypads to be used in the construction of more complex keypanel layouts. This design feature is especially useful when the keypads are used in conjunction with the Storm Universal Keypad Encoder.

The exceptional reliability of Storm keypads is achieved by an ingenious but simple method of construction. A moulded rubber mat is secured around a rigid circuit plate providing its own environmental seal. Storm keypads have been successfully tested after submersion under 1 metre of water for periods in excess of 1 hour. This was achieved without using gaskets or sealing compounds of any kind.

Interchangeable keytop legend tiles allow the selection of keytop graphics to suit any particular application. A comprehensive range of keytop legend tiles, are available from your local Storm supplier.

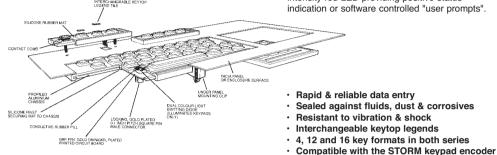
Storm keypads are available in non-illuminated (700 Series) and illuminated (900 Series) versions.

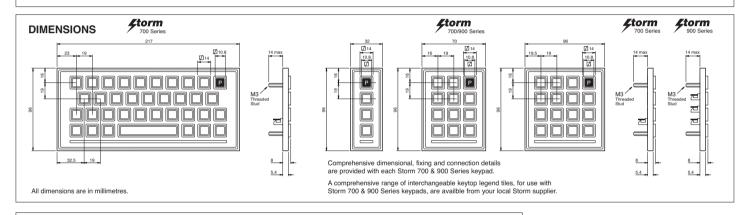
The keypads can be easily mounted to a flat surface or can be located beneath a suitable aperture in a fascia panel.

STORM 900 Series (illuminated) 4, 12 and 16 key formats only

Using the impressive refractive properties of silicone rubber, and the latest developments in surface mount technology, individual keytops can be illuminated by twin diode, two colour LEDs.

The keypad's surface can be lit with a low level green illumination. This provides clearly legible keytop graphics and a visual indication of the keypads operational boundaries. In addition, individual keytops can be selectively lit with a high intensity red LED providing positive status indication or software controlled "user prompts".





ACCESSORIES FOR USE WITH STORM 700/900 SERIES KEYPADS Part Number Description Item Keypad interface for STORM 700/900 Series & K Range keypads. PC XT or AT, PS2 and ASCII RS232/432 data formats configurable via an 8 way DIL switch. STORM 40000001 Keypad Encoder Legend Tile Set 70X00101 A: 0 - 9. ←. →. ↑. ↓.*. #. +. -. ÷. =. .. X. AC. I/O. ENT. CE/C. SP. C: "A TO Z" E: Blank 90X00101 (X denotes type J: French symbols "A to K") K: German symbols Under Panel 7004CL01 1 pair for 4 key keypad, 2 pairs for 12/16 key keypads & 3 pairs for 36 key keypad. Mounting Clips

SPECIFICATION & OPERATIONAL PERFORMANCE

ELECTRICAL Contact Bounce Contact Resistance 5ms (max) Insulation Resistance Breakdown Voltage (to case) Operating Voltage Operating Current LED Drive Current (900 Series only) LED Drive Voltage 3.3V typ Single Diode (900 Series only) LED Drive Voltage Twin Diode (900 Series only) 2.2V typ

100 ohm (max) 50 Mohms (min) at 480V DC 500V AC (max 60 seconds) 24V DC (max) 50 mA (max) 20 mA typ 25mA (max)

> MATERIAL Keypad Surface Keypad chassis Contact Circuit

MECHANICAL Operational Life 2 million cycles (min) Kevtop Travel 1.5mm nominal **Actuation Force** 160gms typical Sealing Torque 0.14 - 0.16 Nm Connector

Locking 0.1" pitch gold-plated square pin connector suitable for use with Molex 2695/6471 or 7720S series or similar female connectors

Engineering grade silicone rubber Coated non-ferrous metal Gold on nickel plated FR4 PCB

ENVIRONMENTAL Water Sealed

Humidity

Operational Temperature

BS5490 Class IP67 / EC529 Class IP67 when panel mounted 90% RH at 40°C (104°F 10 day (max) - Non-condensing 900 Series only: -25°C to +85°C (-13°F to +185°F) 700 Series only:

-55°C to +125°C (-67°F to +257°F)

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









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