

In a dirty world...

storm

700/900 Series

Storm 700/900 Series keypads are intended for use in wet or dirty environments. These modular keypads are designed to withstand the ingress of liquids and other contaminants; manufactured to survive the rigours of modern industrial use.

Storm 900 Series keypads feature selective dual colour illumination of keytops and keytop characters.

Keypad legend tiles can be configured to suit individual applications.

storm

700/900 Series
Tough keypads
for tough environments.

storm 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.

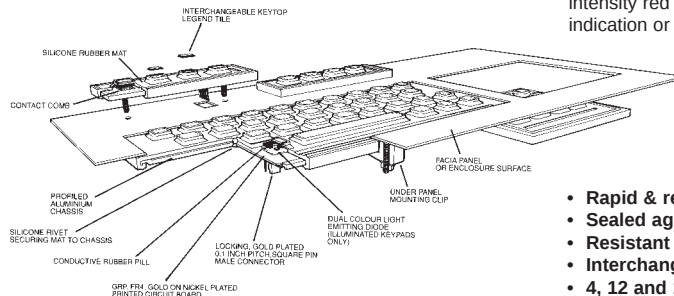
Storm 700 & 900 Series keypads are supplied in 4, 12, 16, and 36 key configurations. The keypad's unique modular design enables combinations of keypads to be used in the construction of more complex keypad layouts. This design feature is especially useful when the keypads are used in conjunction with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



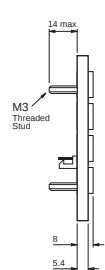
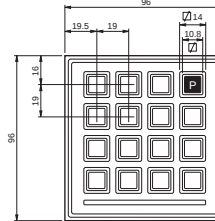
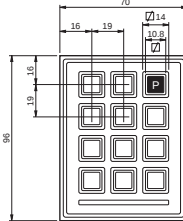
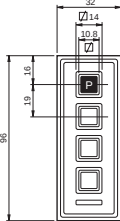
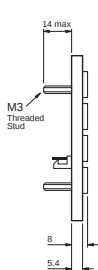
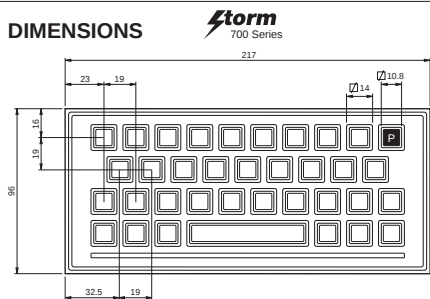
STORM 900 Series (illuminated)
4, 12 and 16 key formats only

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 keypad graphics and a visual indication of the keypads operational boundaries. In addition, individual keypads can be selectively lit with a high intensity red LED providing positive status indication or software controlled "user prompts".

- Rapid & reliable data entry
- Sealed against fluids, dust & corrosives
- Resistant to vibration & shock
- Interchangeable keypad legends
- 4, 12 and 16 key formats in both series
- Compatible with the STORM keypad encoder

DIMENSIONS



Comprehensive dimensional, fixing and connection details are provided with each Storm 700 & 900 Series keypad.

A comprehensive range of interchangeable keytop legend tiles, for use with Storm 700 & 900 Series keypads, are available from your local Storm supplier.

SPECIFICATION & OPERATIONAL PERFORMANCE

ELECTRICAL

Contact Bounce
Contact Resistance
Insulation Resistance
Breakdown Voltage (to case)
Operating Voltage
Operating Current
LED Drive Current (900 Series only)
LED Drive Voltage - Single Diode (900 Series only)
LED Drive Voltage - Twin Diode (900 Series only)

5ms (max)
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)
3.3V typ
2.2V typ

MECHANICAL

Operational Life
Keytop Travel
Actuation Force
Sealing Torque
Connector

2 million cycles (min)
1.5mm nominal
160gms typical
0.14 - 0.16 Nm
Locking 0.1" pitch gold-plated square
pin connector suitable for use with
Molex 2695/6471 or 7720S series
or similar female connectors

ENVIRONMENTAL

Water Sealed	BS5490 Class IP67 / EC529 Class IP67 when panel mounted
Humidity	90% RH at 40°C (104°F) - 10 day (max) - Non-condensing
Operational Temperature	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)

MATERIAL

Keypad Surface
Keypad chassis
Contact Circuit

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

ACCESSORIES FOR USE WITH STORM 700/900 SERIES KEYPADS

Item	Part Number	Description
STORM Keypad Encoder	40000001	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.
Legend Tile Set	70X00101 90X00101 (X denotes type, "A to K")	A: 0 - 9, ←, →, ↑, ↓, *, #, +, -, =, /, X, AC, I/O, ENT, CE/C, SP. B: ←, →, ↑, ↓, ENT, PRINT, DEL, INS, CAP, ESC, CTRL, ALT, E: Blank ON, OFF, 1, /, LOCK, ⏏, ⏏, \$E, ;, ' , , , ←, SP. D: FI to F12, E, \$, ?, !, (,), @, <, >, Fn, ", %, &, SP. F: 0 - 9, →, A - F, CE/C, ENT, OFF, *, #, +, -, =, blank, SP. J: French symbols K: German symbols
Under Panel Mounting Clips	7004CL01	1 pair for 4 key keypad, 2 pairs for 12/16 key keypads & 3 pairs for 36 key keypad.

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

700-LIT-01-ISS2

All dimensions in millimetres (mm).
Full product specifications are available on request
from your local Storm supplier.
Storm keypads incorporate key switch technology
protected by International Patents.



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storm
data entry technology

usa office:
storm data entry technology
 suite 202
 364 pennsylvania avenue
 glen ellyn IL 60137 USA
 tel: (630) 469 2981
 fax: (630) 469 2975
 email: sales.usa@storm-keypads.com
 website: www.storm-keypads.com

uk office:
keymat technology ltd
14 bentinck court
bentinck road
west drayton
middlesex ub7 7rq

tel: +44 (0)1895 431421
fax: +44 (0)1895 431132
email: sales@keymat.com
website: www.keymat.com

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