Technical Information

MCI 30

The **Preh MCI 30** is a space saving, high quality, keyboard providing 30 key positions, which can be configured and programmed to meet customized needs.

The MTF technology protects this keyboard against dust and splash water. The universal, modular design of these compact keyboards permits easy adaptation to meet specific system requirements and independent selection of a magnetic card reader (MSR).

The data from the MSR transmitted over the keyboard interface.

All configurable key positions can be populated with your choice of single, double, and quadruple keys or with dead tiles, which disable a position.

Key values are assigned by programming the keyboard via the **Preh WinProgrammer** software, and can be rewritten or erased as often as desired.

The **MCI 30** offer both PS/2 and USB interface and is compatible with all common operating systems, such as DOS, WINDOWS, UNIX, OS/2, LINUX, etc. No drivers are required.

Optional Features

Magnetic Stripe Reader (MSR)

The MSR works with all magnetic cards. The MSR data is transmitted over the keyboard interface. All information on the card is read.

- **Bi-directional MSR:** magnetic cards can be swiped in either direction.
- **MSR Tracks:** 3 tracks, including the ability to read drivers license format AAMVA and CADL.
- **Expected Magnetic-head life:** 500,000 passes.
- **Error rate:** less than 0.5%.
- **Power consumption:** less than 9mA.
- **Status LED:** provides confirmation of a correct read.
- **Headers and terminators:** are programmable.
- **Complaint with:** ISO 7810, ISO 7811, ISO 7812, and ISO 7813.

Drivers and Tools:

- OPOS driver for MSR, keylock and Keyboard.
- JavaPOS driver (Windows and Linux) for MSR, keylock and Keyboard.
- Programming tools for Windows and DOS.

Programming via the Preh WinProgrammer.

- User-friendly interface.
- Key assignments can be made available, edited and copied to a file.
- 128 programmable levels.

Technical Data

Mechanics

Housing

- **Dimensions:**
  See page 6
- **Color:** gray-white (similar to RAL 9002) and black.

Keys

Key spacing:
  19mm
Actuation travel:
  3,5 mm
Actuation force:
  0,6 N
Impact stability:
  10 N, 1 min.
Lifetime:
  3 million cycles per key
Bounce Time
  5ms max.
Switching load
  30V max/ 20mAh max.
Contact Resistance
  800 ohm max.
Colors:
- Grey-white.
- Black.
- Additional colors on request.

Environment protection
IP 54

Electronics

Supply voltage
 + 5 V ± 5%

Current consumption
Max 50 mA

Interface
USB (PS/2 adaptor included). Hard-wired PS/2 interface available upon request. Minimum order quantities apply.

Auto repeat All keys, repeat frequency and delay time are programmable.

4 Status LEDS
- Caps Lock
- Scroll Lock
- Num Lock
- MSR status

Buzzer
Generates acoustic signals (key click).

PS/2 socket
Assignment
(6 Pole Mini-Din connector)
1 Data
2 NC
3 GND
4 +5V
5 Clock
6 NC
Shielding

ESD/EMC/EMV
CE Approval

Emissions
EN55022
FCC Subpart 15, Class A

Interface Immunity
- Electrostatic discharge immunity according to EN 50082-1, resistance limit 8kv (air discharge).
- Radiated, radio-frequency electromagnetic field immunity, severity of test 3 V/m.

Temperature Ratings

Operational Temperature
0° C to 50° C

Air Pressure
700 hPa to 1060 hPa

Relative Humidity
5% to 93%

Climatic Class
700 hPa to 1060 hPa

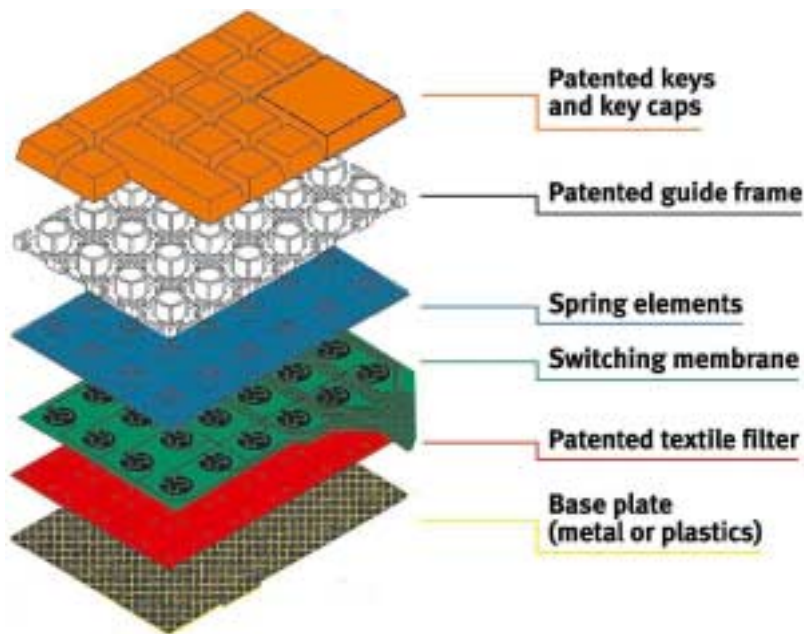**Storage and Transportation**
-40°C to 60°C

Climatic class
DIN-IEC 68, part 1, appendix A

Climatic Class
700 hPa to 1060 hPa

Storage and Transportation
-40°C to 60°C

Climatic class
DIN-IEC 68, part 1, appendix A

Patented long life Keypad Technology

Patented keys and key caps

Patented guide frame

Spring elements

Switching membrane

Patented textile filter

Base plate (metal or plastics)

Dimensional Drawings
Dimensions in mm (inches)

~37.1[~1.461]

~119[~4.685]

~182.7[~7.193]

ACCEPT NUM CAPS SCROLL

MCI 30/DS Ver 1.4
February 2005