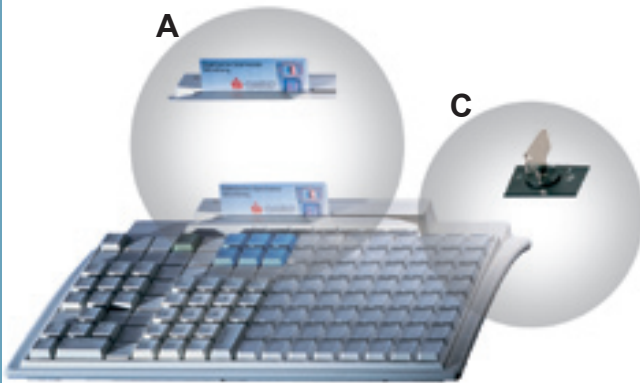


## MC Keyboards Tech Specs



MC 128 with MSR

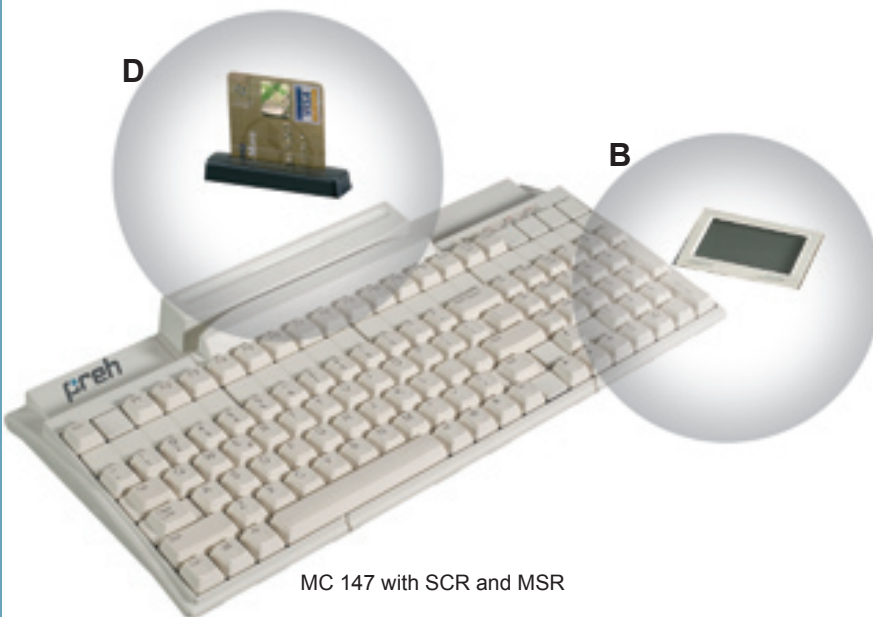
### A) Magnetic Stripe Reader (MSR)

- The MSR is compatible with all magnetic cards according with ISO 7810, ISO 7811, ISO 7812, and ISO 7813
- Bi-directional MSR, cards can be swiped in either direction
- 3 tracks, including the ability to read drivers license format AAMVA and CADL
- Expected Magnetic-head life of 500,000 passes
- Status LED provides confirmation of a correct read
- Headers and terminators are programmable

### B) Touchpad

A touchpad could be installed in a 3 x 4 key position at the upper left or right corner.

- Fully compatible with Windows 98, NT 4.0, 2000, XP and Linux native drivers.
- IP 54
- Capacitive-sensing technology
- No additional drivers are necessary, works as a mouse



MC 147 with SCR and MSR

### C) Keylock

- 5 position
- Headers and terminators are programmable
- Lifetime: 20,000 cycles

### D) Smart Card Reader (SCR)

- Current consumption of 60mA
- USB Interface
- Application Interface PC/SC, OCF and CT-API
- ISO 7816 and EMV 2000 compatible
- CAC compatible
- Microsoft WHQL certified

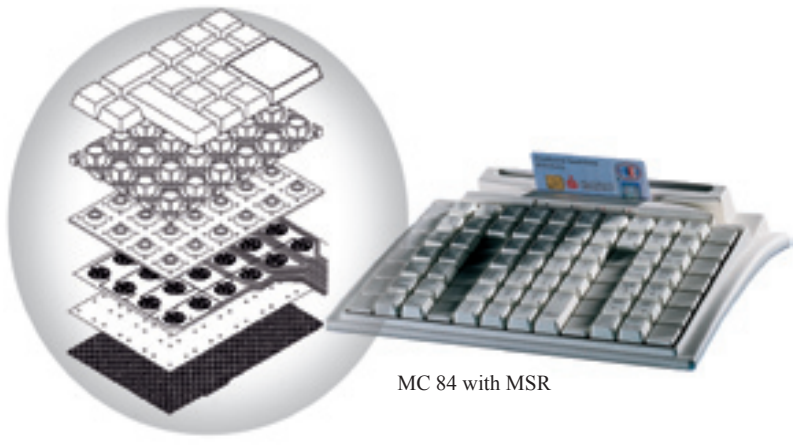
### E) LCD Display

- Controlled over the keyboard interface
- 2x24 (5mm) character.
- 2x20, 9mm character is also available in special order
- Yellow-Green Color
- Articulation +/-15 Degrees

### Available options per keyboard model

	MSR	Keylock	Smart Card	Touchpad	Alpha layout	LCD Display	USB-PS/2
MC 147	●	●	●	●	●**	N/A	●
MC 128	●	●	N/A	●	●	●	N/A
MC 84	●	N/A	N/A	●*	N/A	●	N/A
MC 80	●	●	N/A	●*	●*	●	N/A

\*Special Order \*\* MC147 only available in Alphanumeric version



MC 84 with MSR

### Keys and Keypad

- Life Span > 30 Million Cycles
- Multilayer patented technology provides IP54 protection against dust and spills
- Keys available in Black and White. Additional colors on request, minimal order quantities apply
- Customized keys available
- Key spacing 19 mm
- Actuation travel 3.5 mm
- Actuation Force 0.6 N
- Impact stability 10 N, 1 min
- Bounce Time 5 ms max.
- Contact Resistance 800 ohm max.

Electronics	
Supply Voltage	+ 5 V ± 5%
Current consumption	Max 60 mA
Interface	<ul style="list-style-type: none"> <li>•PS/2</li> <li>•USB* (PS/2 adaptor included). Hard-wired PS/2 interface available upon request. Minimum order quantities apply.</li> </ul>
Auto repeat	All keys, repeat frequency and delay time are programmable.
4 Status LEDs	<ul style="list-style-type: none"> <li>•Caps Lock</li> <li>•Scroll Lock</li> <li>•Num Lock</li> <li>•MSR status</li> </ul>
Tone Indicator*	Accessible via OPOS
Daisy Chain Port	Allows connection of an additional keyboard for servicing. Not available for MC 147

Certifications	
ESD/EMC/EMV	CE Approval
Emissions	<ul style="list-style-type: none"> <li>•EN55022</li> <li>•FCC Subpart 15, Class A</li> </ul>
Interface Immunity	<ul style="list-style-type: none"> <li>•Electrostatic discharge immunity according to EN 50082-1, resistance limit 8 kV (air discharge).</li> <li>•Radiated, radio-frequency electromagnetic field immunity, severity of test 3 V/m.</li> </ul>

Drivers and Tools
<ul style="list-style-type: none"> <li>•OPOS and JavaPOS drivers for MSR, Keylock, Keyboard, LCD Display** and Tone Indicator*.</li> <li>JavaPOS driver available for Windows and Linux</li> <li>•Programming tools for Windows and DOS.</li> <li>•128 programmable levels.</li> <li>•User interface</li> <li>•Remote programming tools (Network)</li> <li>•WEPOS verified*</li> </ul>

Temperature and Environment Ratings	
Operational Temperature	0° C to 50° C
Air Pressure	700 hPa to 1060 hPa
Relative Humidity	5% to 93%
Storage & Transportation	-40°C to 60°C
Climatic class	DIN-IEC 68, part 1, appendix A

\* MC147 Only  
 \*\* JavaPOS driver not available for this module

Materials	
Housing	ABS
Guide Frame	Polystrol
Switching Membrane	Polyester
Spring Elements	Elastomer
Textile filter	Trevira
Keys and Keycaps	PBT/POM/PC



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