



Type A9

IBM MF2 compatible

INTRODUCTION

Wherever dirt, dust and splashing water are likely to be harmful to keyboards and even a small drop of water can paralyse the whole electronic system, Rafi overlay keyboards are at their best.

All keys are protected by an overlay membrane safe from dust and humidity. They are easy to clean and therefore ideal for use in factories and laboratories as well as in medical and food environments requiring stringent hygiene standards.

The short travel mechanical keyswitch with overlay provides a tactile feedback (click). This input acknowledgement helps prevent typing errors and assists accurate data entry.

TYPE A9 FEATURES

Keyboard, mouse button and mini joystick are water jet proof to IP65 standard according to DIN40050. Mouse button and mini joystick are compatible with Microsoft mouse or PS/2 mouse. Versions with USB/MF2 interface, automatic interface recognition - USB connector adapter included. USB versions with pointing device on request.

POINTING DEVICE

The pointing device unit consists of the left and right mouse keys and - depending on the version, the mouse button or mini-joystick in the middle.

When the mouse button or joystick is actuated, the force and direction are detected by a sensor and interpreted for cursor/mouse control by an electronic module.

The higher the pressure the faster the movement of the cursor/mouse pointer.

The device/cursor relation can be configured with the driver software included.

No moving parts for long service life and high reliability.

RAFI RF15 SHORT TRAVEL KEYS

The RF15 short travel keys provide an excellent tactile feedback for the type A keyboards. In combination with the embossed areas over the keys, high operating comfort and reliable data entry are achieved. The RF15 short travel keys are provided with gold/gold contacts and offer LED indicators to signal a switch on/off status.

CE CONFORMITY

The Type A keyboards comply with the EC directive 89/336 which includes; EN 50 081-1 (emitted interference) and EN 50 082 Part 1 (interference immunity).

RESISTANCE TO CLIMATE TO IEC

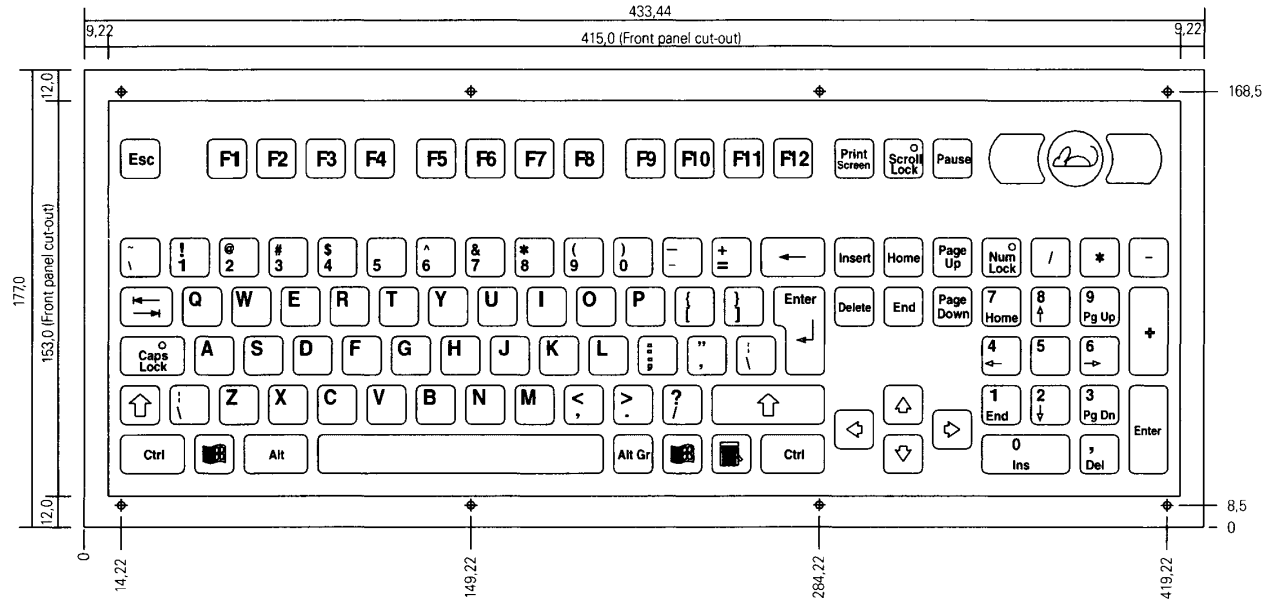
The Type A keyboards are climate-proof according to the following standards:

- Static environment to IEC 68-2-3 and 2-30

- Dynamic environment to IEC 68-2-14 and 2-33

GENERAL KEYBOARD INFORMATION

- 101 Rafi RF15 switches
- 4 LEDs
- Switch printed circuit board in FR4, double side, metallised holes, UL approved
- Independent electronic interface board in SMD technology, with multi-layer printed circuit board
- N-Key roll-over
- Extruded aluminium housing
- Shielded spiral cable
- Protection degree; Front panel version IP65 from front only
- Versions - Pointing devices mouse button, mini joystick, no pointing device
Versions - keyboard format
 - a) metal desktop housing painted in agate grey (RAL 7038)
 - b) 19" rack 4HU vertical mount
 - c) 19" rack drawer, 1HU in clear anodised aluminium complete with extracting guides
 - d) open frame panel version



TECHNICAL FEATURES - KEYBOARD

Switches: Rafi RF15

Switch travel: 0.5mm +0.2

Switch operating life: > 1 million operations

Overlay: Structured embossed Rayvex polyester

Ambient Temperature:

Operating 0°C to +55°C.

Storage -25°C to + 65°C

(extended temperature range available)

Supply voltage: + 5Vdc +/-5%

Supply current: approx 100mA

Connections: 5 pin DIN, mini DIN for PS/2

Cable: shielded spiral cable

Interface: Serial, synchronous, TTL level

Dimensions (mm):

Desk top: 447 x 213 x 40

19" 4HU vertical mounting

483 x 178 x 35

19" 1HU drawer complete with

telescopic guides 483 x 310 x 44

Front panel: 433 x 177 x 15

Panel cut out: 415 x 153

TECHNICAL FEATURES - MOUSE BUTTON

Mouse button: Polymeric film FSR, patented by Interlink Electronics Inc.

Directional control: 360° continuous

Operative life:

mouse button >10 million cycles,

click switches >1 million cycles

Interface: RS232C PS/2 mouse port

Compatibility: DOS, Windows, OS/2

Supply current (mouse only): 6mA

typical at 5Vdc

Connection: 9 way male Sub D

connector for RS232C version, mini

DIN for PS/2 version