

Complete access control terminal, ideal for controlled area access in nuclear power plants. The ACT-3 was developed for use with the Thermo Fisher Scientific Electronic Personal Dosemeter (EPD® Mk2).

ACT-3™

Access Control Terminal



- Internal industrial PC
- Can give audible warnings and voice messages for user guidance
- Rugged, numeric keypad for data entry
- Built-in bar code reader for Radiation Work Permit, Task data or film/TLD identification
- Color TFT display



General

The ACT-3 is suitable for industrial environments, such as the boundary of (or inside) the Controlled Area of a nuclear power plant. One or more ACT-3s can be networked with a server running access control and dose management software, such as the DMS-2, DCS or REMS. The unitary design is compact whilst the large display is easy and comfortable to view. An internal sound system allows voice messages and audible signals to be relayed to the user.

The user follows the instructions on the display to enter his/her identity and

Radiation Work Permit or Task number. An EPD can be issued and the user enters the Controlled Area, if permitted by dose limits and other constraints. When leaving the Controlled Area, the EPD is returned by following the instructions on the display of the Access Control Terminal. An interface can be fitted inside the ACT-3 to control the operation of turnstiles.

A bar-code card scanner for identity badges is built in, and other types of identification readers can be interfaced as an option.

- Rugged, painted steel enclosure
- PC-compatible architecture
- 27 cm (10.5") color TFT display
- Sound amplifier and loudspeaker
- Fan ventilation with filter
- Rugged, numeric keypad
- Optional bar code reader
- Optional turnstile control

Computer

- IBM compatible multimedia biscuit PC with built in:
 - VGA/LCD controller
 - Pentium® processor fitted on Socket 7
 - 10/100Base-T Ethernet communication (RJ-45)
 - Large capacity hard drive
 - Option of touch screen
 - Sound card
 - VGA output
 - EPD reader interface
 - Mouse & Keyboard connectors (for maintenance only)

EPD Reader

- EPD Mk2 reader head
- Interface to EPD: IrDA type, insertion of EPD required in standard version

Electrical & Environment

- Input power supply: 90-264 V ac, 47-63 Hz
- Max. input current: 2 A (230 V.)/ 4 A (110 V)
- Electrical safety: to IEC950
- Requires IEC320 power cable
- Operating Temperature: 0 °C to 40 °C (32 °F to 104 °F)
- Storage Temperature: -20 °C to 60 °C (-4 °F to 140 °F)
- Relative Humidity: 10 to 90% at 29 °C (85 °F)
- EMC: Complies with EN50081-1 and EN50082-1 (CE marked)

Mechanical

- Dimensions (overall): 110 x 390 x 330 mm (4.5 x 15 x 13 in.)
- Weight (approx.): 10 kg (22 lbs)
- Options:
 - Flat wall mounting plate (standard)
 - Desktop stand (optional)
 - Touch screen option



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