

SEIFERT

ERESCO MF4 Control

Portable X-ray Unit Digital Control



Features

- Robust and ergonomic design for operation in different working positions
- Transflective, backlit, graphic display for contrast optimized indoor and outdoor operation
- Intuitive and menu driven user interface with multifunction-, numeric- and cursor keys input
- Multiple on-board features:
 - Exposure Calculator
 - Customizable exposure programs (supports off-line administration with PC tool including download, upload, archiving, reporting)
 - System parameter monitoring
 - Intelligent fully automatic warm-up program
 - RS-232 interface
 - Power mode for shortest possible exposure time
 - Supports 250 exposure programs
 - Supports 256 event and warm-up records each with synchronization to different radiation units
 - Supports off-line analysis of event and warm-up records (for reporting and documentation purpose)
 - Automatic recognition of connected X-ray tube head
- Small size, low weight and water / dust resistant (IP 65)
- Protective front panel cover
- Modern power electronics
- Microprocessor-controlled
- Built-in fail-safe warning lamp

- Easily adapts to different mains supplies, including portable generators
- Emergency-Stop in compliance with international standards

Certifications

- CE compliant acc. to EMC and Low Voltage Directive
- French Standard NFC 74100
- BfS certification (PTB approval) *
- Produced under ISO 9001 certified quality management system

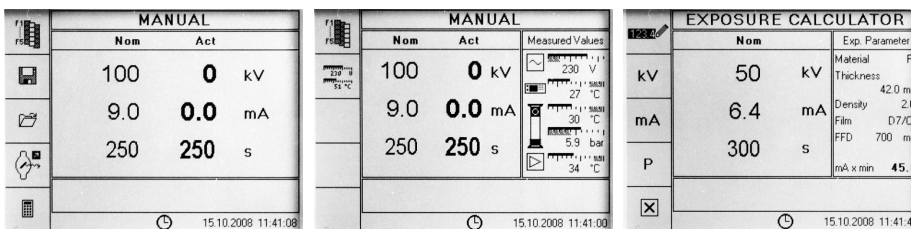
* in conjunction with radiation unit

Technical Data

Voltage, settable in steps of 1 kV	5 - 300 kV (depending on the tube head)
Current, settable in steps of 0.1 mA	0.5 - 10 mA (depending on the tube head)
Exposure time in 1 sec steps or as min/sec value	1 to 5994 sec (optional display 99 min / 99 sec)
Pre programmable exposure programs	max. 250
Memory Size for event and warm-up records	256 for each
Display	transflective, backlit, graphic-display, 320 × 240 pixel
Supported languages	19
Character Sets	4, European (ISO), Japanese, Chinese, Cyrillic
Exposure Calculator	on-board, Fe, Ti, Al pre programmed / 3 materials free programmable
Warm-up	fully automatic, based on real time clock
Tube head identification	automatic
Parameter monitoring	continuous, on-line display of temperatures, pressure and line-voltage
Serial interface RS 232	1
Safety interlocks	2 (primary also available)
Emergency-Stop button	1
Three-position key switch	OFF, STANDBY, ON
Power supply requirements *)	1 PE N, 160 V - 253 V AC, max. 13 A single phase with grounded neutral, 1 PE N, 80 V - 127 V AC, max. 20 A, 50/60 Hz
Dimensions	see drawing
Weight	8.6 kg (19 lbs)
Protection class	IP65
Operating Temperature	-20° C to +70° C
Storage Temperature	-30° C to +80° C

*) Operation with reduced output is possible at mains voltages below 205 V and 108 V respectively.

Exemplary screenshots of user Interface

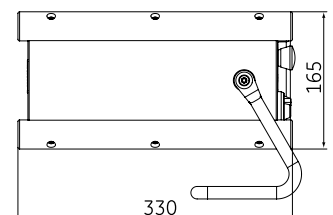
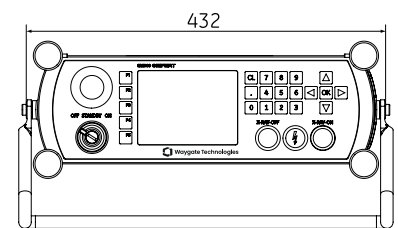


Options

- External fail-safe flashing warning lamp
- Aluminium transport box
- MF4 Administrator Kit (CD-ROM and Interface Cable)
- Connecting cable for door contacts
- Extension cable ERESO MF4, 20 m / 10 m (64 ft / 32 ft)
- Exposure calculator (PC based)
- Primary interlock kit
- Adapter cable for ERESO MF3 radiation unit, 20 m / 0.5 m (64 ft / 1.6 ft) long

Standard scope of supply of a complete X-ray generator system:

- ERESO MF4 tube head (see sep. product information)
- Digital Control "ERESCO MF4 Control"
- Canvas bag
- Connecting cable for ERESO MF4, various length up to 60 m (193 ft)
- Power connecting cable 230 V or 115 V, 10 m (32 ft) long
- Set of accessories containing: spare fuses, spare bulbs and Allen key



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