

SEIFERT ERESKO control



Portable X-ray Unit Digital Control

Features

- Small size; low weight and water resistant (IP 65)
- Modern power electronics
- Microprocessor-controlled
- SMD technology
- Built-in fail-safe warning lamp
- Intelligent automatic warm-up program
- Power mode for shortest possible exposure time
- Real-time clock
- Automatic recognition of connected X-ray tube head
- Stores up to 250 exposure programs in a non-volatile memory
- Large graphic display with back light for viewing of clear text messages
- Easily adapts to different mains supplies, including portable generators
- Emergency-Stop in compliance with international standards
- EMC - certified under EN 55011 / IEC 801 (electromagnetic compatibility)
- Produced under ISO 9001 certified quality management system

Standard Delivery Scope of complete X-ray unit

- ERESKO MF3 tube head (see sep. product information)
- Digital Control "ERESKO control"
- Canvas bag
- Connecting cable for ERESKO MF, 20 m (64 ft) long
- Power connecting cable 230 V, 10 m (32 ft) long
- Set of accessories containing: spare fuses and spare bulbs

Options

- External fail-safe flashing warning lamp
- Aluminium transport box
- Power connecting cable 115 V, 10 m (32 ft) long
- Connecting cable for door contacts
- Extension cable ERESKO MF, 20 m (64 ft) long
- Portable electric power generator for ERESKO MF
- Exposure calculator
- Primary interlock kit

GE imagination at work



Description

The digital control features modern 20 kHz medium frequency power electronics. It is a microprocessor-control designed using up-to-date SMD technology. The operational status is viewed on a large back lit LCD display to allow easy viewing even under the most difficult light conditions. The operating parameters of voltage, current, and exposure time can be entered directly via keypad or retrieved from 250 user-programmable

exposure programs. In power operation, the maximum tube current is set, minimizing exposure times. The integrated real-time clock enables a fully automated warm-up of the radiating unit relative to past operational intervals.

The control unit recognizes type and serial number of the X-ray tube head that it is connected to for optimum protection of the X-ray tube. For service purposes,

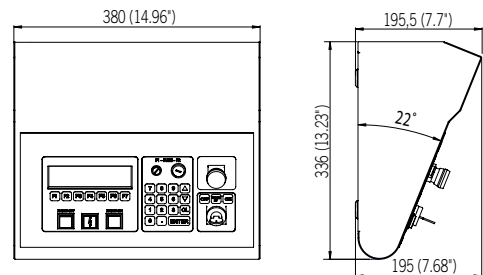
the operating parameters of the last 128 events are recorded. The control features two safety circuits and one serial computer interface. For use on construction sites etc. an optional separate flashing warning lamp with "FAIL-SAFE CIRCUIT" is offered.

Technical Data

Automatic tube head identification	
Microprocessor-controlled diagnostics	
Operating parameter memory	
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 to be set in 0.1 min or 1 sec steps	0.1 to 99.9 min (optional display in min or sec)
Preprogrammable exposure programs	max. 250
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
Connecting cable	20 m / 4 kg (9 lbs) (optionally up to 60 m (197 ft) max.)
Power connecting cable	10 m / 1.2 kg (2.6 lbs) (optionally up to 100 m (328 ft) max.)
Dimensions	see drawing
Weight	8 kg (17,6 lbs)
Protection class	IP65

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

Choice of messages in presently up to 16 languages on the LCD display available.



Drawing without handholds