

XREC20

X-RAY SOURCE ELECTRONICS SET



for SAX sources



DESCRIPTION

The **XREC20 set** comprises 2 units for full control of the SAX X-ray Sources: **XREC20-I emission controller**, **XRHV02-PS high voltage power supply**.

The XREC20-I unit controls the emission current of the X-ray source and also the XRHV02-PS high voltage power supply, displaying both the high voltage and emission current on a single display. The unit allows measurement of working time and anode power. The X-ray source electronics set has both operational and standby modes, guaranteeing the most accurate and stable emission at the start of an experiment. Easy firmware update via USB port (XREC20-I). The unit can be remotely controlled via RS232/485 or Ethernet interfaces. The unit is equipped with autosave function (the device save your parameters, preset and apply them automatically after restart).

TECHNICAL DATA XRHV02-PS

Supply voltage	85 - 260 VAC, 50-60 Hz
Output voltage range V_o	0 - 15 kV
Output current range I_o	0 - 100 mA
Max output power	1.5 kW
Polarity	negative
Remote control	via indirect coupled analogue I/O (male D-SUB 9) set and monitor 0 - 5 V
Protection	over load and short circuit, voltage supply and temperature
Dimensions	483 × 88 × 420 mm (W×H×D), 19" rack mountable
Weight (approx.)	6.5 kg

TECHNICAL DATA XREC20-I

Supply voltage	110 or 230 VAC, 50/60 Hz, (power consumption max 1800 W)
Emission current range (I_e)	0 - 100 mA, accuracy 0.1 mA
Anode high voltage range (U_{HV})	0.5 - 15 kV, accuracy 0.1 kV
Cathode current (I_{cath})	3 A in Standby mode up to 20 A in Operate mode
Anode power limit	650 W
Emission current ramp	0.1 - 50 mA/sec
High voltage ramp	1 - 1000 V/sec
Interlocks	high vacuum, cooling water (master), X-ray cover
Communication interface	RS232/485, Ethernet
Communication protocol	MODBUS-TCP
User interface	7" TFT display with touchscreen, digital encoder
Interface languages	English, German, Polish
Dimensions	483 × 133 × 380 mm (W×H×D), 19" rack mountable
Weight (approx.)	10 kg



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