

Ersa 0DIG20AXT Temperature Controlled Digital Desoldering Station

Power, Precision & Safety- ERSA DIGITAL 2000A offers the best Bang for your Buck!

SONA
Technologies
reliable performance, dependable service



This Desoldering Station is suitable for removing residual solder and for desoldering wired components, even from multi-layer PCBs. The system consists of the Ersa **DIGITAL 2000 A**, a vacuum unit with the **X-TOOL** desoldering iron and the tool holder. The desoldering tip is heated by two PTC heating elements.

A thermocouple temperature sensor near the desoldering tip immediately reacts to any heat loss. Practically delay free reheating is therefore ensured.

The vacuum to suck up the liquefied solder is immediately available when the push-button is pressed.

The recesses of the tool holder allow exchanging inserted soldering tips, even when hot, without an additional tool.

The Ersa **DIGITAL 2000 A** is a top-class microprocessor controlled desoldering station distinguished by its flexibility and multifunctionality. It is antistatic according to the MILSPEC/ESA standard and designed for industrial use where high quality is demanded and for repairs and laboratory applications.

The station can alternatively be operated with various soldering and desoldering tools. Besides the **POWER TOOL** and **TECH TOOL** universal soldering irons, the **MICRO TOOL** microsoldering iron, the **CHIP TOOL** desoldering tweezers and the **X-TOOL** desoldering iron can be connected.

The tools are automatically detected when inserted, and the control characteristics are adapted accordingly. The soldering and desoldering tips are then always connected with high impedance to the front-installed potential equalization socket.

The station is easy to operate and user-friendly. The desired temperatures, the unit of temperature ($^{\circ}\text{C}/^{\circ}\text{F}$), the standby time of 0 to 60 minutes, a tip offset and calibration feature and a three-character password-controlled lock can all be set with just three buttons and a simple menu guide. The energy feature allows you to influence the heat-up and reheating characteristics.

In addition, the desoldering station has 4 programs. Each program can be separately and differently configured with the aforementioned functions. A fixed program is assigned to each soldering and desoldering tool. The station automatically changes the program in case of a tool change.

If only one tool is used, then all programs can be used with this tool. A 5th program slot contains a temperature measuring function. For this purpose the temperature sensor DIG207 is required.

The calibration feature allows the actual tip temperature to be precisely adjusted to the temperature shown in the LED display. For this purpose a suitable tip temperature measuring device, such as the Ersa DTM series is required. The Ersa **DIGITAL 2000 A** desoldering station regulates the temperature through a digital PID algorithm, optimized for very precise and fast temperature control.

Features

- Standby time range: 0 ~ 60 minutes
- Digital Calibration Range: $\pm 50^{\circ}\text{C}$
- Energy Functions : E1 (minimum heating)
E2 (medium heating)
E3 (maximum heating)
- Password Function for access control

Scope of Supply (Model 0DIG20AXT):

- DIGITAL 2000A Control Unit
- Vacuum Unit
- X-Tool Desoldering Iron
- Holder for Desoldering Iron
- Cleaning Sponge

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Features:

- Antistatic design
- Full-wave control
- VDE-GS, CE, VDE-EMC marks of conformity
- Multiple tools can be used (soldering, desoldering, Thermal Tweezer, micro soldering)
- Standby Function : Switches the station to a lower temperature of 200degree if it has not been used over a preset period of time. Protect the soldering tip and reduces energy consumption.
- Tip Offset Function adapts the temperature measurement to the given soldering tip geometry/mass.
- Digital Calibration allows the display value to be adjusted to the actual tip temperature. The adjustable calibration range is $\pm 50^{\circ}\text{C}$
- Energy Function allows the user to influence the control characteristics of the station, so that heating and re-heating by the station can be adapted to the given area of application. E1: Minimum re-heating characteristics. E2: Stronger re-heating characteristics. E3: Maximum re-heating characteristics.
- Potential equalisation
- 24 V small voltage for soldering irons
- Auto detection of tools

Technical Specifications:

Parameters	Specifications
Main Control Unit	
Supply voltage	230 V~, 50-60 Hz
Secondary voltage	24 V~
Output	80 W
Control technology	SENSOTRONIC with digital PID behavior
Temperature range	continuous 50 °C – 450 °C/122 °F – 842 °F
Function display	4-character LED display with menu control
Cable	2 m PVC with device socket
Fuse	400 mA, delayed-action
Design	antistatic according to MIL-SPEC/ESA standard
X-TOOL Desoldering Iron	
Voltage 24 V~	24 V~
Output	2 x 30 W/280 °C (536 °F) – 2 x 20 W/350 °C (662 °F)
Heat up rating	260 W
Heat up time	Peak dependent
Weight (incl. cable and tip)	approximately 240 g
Heating elements	2, 60 W each (at 350° C/662° F)
Temperature measurement	Ni-CrNi thermocouple
Starting vacuum	up to 800 mbar
Grip Desoldering	approx. 70 mm
Design	antistatic according to MIL-SPEC/ESA standard

Standard Desoldering Tips for X-Tool Desoldering Iron

	Description	Size (ID)	Size (OD)	Part Number
	Desoldering Tip	0.8mm	2.3mm	0722EN0823
	Desoldering Tip	1.0mm	2.3mm	0722EN1023
	Desoldering Tip	1.2mm	2.6mm	0722ED1226
	Desoldering Tip	1.5mm	2.9mm	0722EN1529

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