

Electronic contact thermometer with digital readout "Sensoterm II".
Complete with AISI 304 stainless steel sheathed Pt1000 temperature sensor
FEATURES:
Conceived and designed as external sensor probe, where the controller is away from the measuring temperature zone of heat and vapour. The advantages over a contact thermometer means additional safety, no broken glassware or mercury spills.
SPECIFICATION
Temperature range from: -50 °C to +300 °C.
Temperature sensor : 3.5 Ø x 250 mm immersion.
Stability: 1 °C ±1 digit
Resolution: 1 °C.
Temperature display: LCD 8 mm.
Working environment: 0 to 60 °C and relative humidity up to 80 %.
Dimensions: 130 high x 71 wide x 24 mm deep (without probe)

Identification ICON

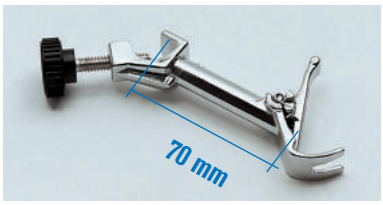
Part No. 1001009



Support rod with thread of 12 mm Ø x 500 mm high, stirrer dependent, attaches to the main body of the stirrer.
Part No. 1000725



Temperature controller Electemp-TFT.
FEATURES:
P.I.D. digital temperature controller. User configurable microprocessor of function parameters.
Temperature measurement range: -150 °C to 1300 °C.
Temperature regulation: from ambient +5 °C to 1300 °C.
Sensor options: Pt100 or Thermo resistor K type probe.
See page 303.
SPECIFICATION:
Stability: ±0.1 °C.
Resolution: ±0.1 °C Pt 100 /±1 °C K Type probe.
Operation: P.I.D.
AUTOTUNING. Adapts automatically to the working medium (Solid, liquid or gas.)
Dimensions: 10.5 high x 13.5 wide x 21cm deep.
Maximum power (at 230 V): 3100 W.
Weight: 1.250 Kg
Part No. 3000897
ACCESSORIES:
Probe Pt100 Part No. 1000893
Probe K Type. Part No. 1000895



Clamp with bosshead , "AUTOMATIC"
Chrome coated alloy with screw closure.
For Ø from 0 to 25mm.
Part No. 7000251



Temperature sensor Pt100. Controls the sample temperature in the digital hotplate stirrers.
Immersion Probe: 4mm Ø x 130 mm long.
Cable connector 150 cm long.

Identification ICON

Part No. 1001610 for 7000280 and 7000281.
Part No. 1000893 for 7000837 and 7000838.



Adapters for round flasks of 250, 500, 1000 and 2000 ml.
Made of Aluminium alloy. Suitable for the stirrers with a Ø greater than 14.5 cm.
Maximum adapter temperature 250 °C.
Part No.
1001712 250 ml flasks.
1001718 500 ml flasks.
1001719 1000 and 2000ml flasks.

Mixer shaker for tubes "Vortex-Vib"

SHAKE BY MIXER HEAD.

Strong and economic.

FEATURES

With stirring selector by pressure, or fixed in continuous. Starting switch, 4 interchangeable platforms for multiple tubes and 50 ml flasks. Base with 4 suction cups for full adherence.

MODEL

Part No.	Frequency r.p.m.	Height /Width /Depth (exterior) cm	Power W	Weight Kg
7001725	2800	18 12,5 18	50	4



Hotplate-Rectangular "Combiplac"

PLATE TEMPERAURE ADJUSTABLE UP TO 400 °C.



FEATURES

Electronic energy temperature control.
The non warping steel hotplate has heating elements embedded throughout the hotplate surface maintaining the heat distribution.
The main case is made of AISI 304 stainless steel.

CONTROL PANEL

Main power switch with "ON" indicator lamp.
Electronic energy control from 0 to 100 %.
An indicator lamp shows when the unit is hot.
Connector at the back for the external digital thermometer, "Sensoterm" or "Electemp-TFT".
See Regulators and Controllers (pages 303 and 306).

MODELS

Part No.	Width / Depth (plate) cm		Height / Width / Depth (exterior) cm			Power W	Weight Kg
3000156	20	40	12	22	55	2300	9
3000718	30	30	13	33	46	2800	13

ACCESSORIES

Sand bath adapters. Made entirely of AISI 310 stainless steel, removable for easy cleaning.



Part No.	Hotplate Part No.	Height/Width/Depth (Sand tray dims) cm		
6000719	3000156	5.5	20	40
6000720	3000718	5.5	31	31

Hotplate-Circular "Combiplac"

PLATE TEMPERATURE ADJUSTABLE UP TO 400 °C.



FEATURES

Electronic energy controller and embedded heating element throughout the non warping steel hotplate surface.
A retort bar can be located in a hole at the back of the unit.
The main case is made of AISI 304 stainless steel.

CONTROL PANEL

Main power switch with "ON" indicator lamp.
Temperature controlled by a 0 - 100 % energy controller.
A lamp indicates when the hot plate is "ON".
A Thermometer "Sensoterm" or "Electemp-TFT" that can be added and are listed as accessories.
See section Regulators and Controllers (303 and 306).

MODELS

Part No.	Plate Ø cm	Height / Width / Depth (exterior) cm			Power W	Weight Kg
3002302	20	13	21	30	950	3

ACCESSORIES

Suitable for the 12 cm Ø hotplates only Part No.3002301:



Bath of AISI 304 stainless steel of 140 mm Ø x 75mm high, with concentric reduction ring lid, Suitable for water, oil or sand. Part No. 7002510



Round bottom flask adapter made of aluminium and suitable for Kjeldahl flasks of 50 to 100 ml and 50 to 100 ml round bottom flasks. Part No. 1002290



Round bottom flask adapter made of aluminium and suitable for Kjeldahl flasks of 300 to 800 ml and round bottom flasks of 250 to 500 ml. Part No. 1002280



Support rod of 12mm Ø and 500 mm high, fits on to the main body of the hotplate. Suitable for the circular Combiplacs 3002301 and 3002302.
Part No.1000725

Electronic contact thermometers with digital readout "Sensoterm".
With Pt100 sensor with stainless steel AISI 304 sheath.
Part No. 1001009
Features. See Regulators and Controllers (pages 303 and 306).



Electronic temperature controller "Electemp-TFT"

Part No.	Height / Width / Depth (exterior) cm			Max power (at 230 V) W	Weight Kg
3000897	10.5	13.5	21	3100	1.250

Features. See Regulators and Controllers (see pages 303 and 306).



Monitor and Control Apparatus

Electronic controller “Electemp-TFT”



FEATURES

Reading temperature range: -150 °C to 1300 °C
Stability: ±0.1 °C.
Resolution: ±0.1 °C Pt 100 /±1 °C K Type probe.
Touch screen
- Main On/Off switch.
- Acoustic and visual alarm.
- Clock calendar.
- Up to 10 work programs.
- Up to 6 segments per program.
- Stability time in each segment (from 1 min to 99h).
- Ramps between segments.
- Alarms and events storage.
- Probe error detection.
- Self Diagnostics .
- Network failure detection and saving.
- Over temperature and low temperature alarms and memorization (date, start time, end time and temperature).
- Safety thermostat (TS) by software .
- RS-232 and USB output.
- Temperature control auto-tuning.
- Configurable parameters: Date / time, temperature correction , data collection interval, language (English, Spanish and French) , °C / °F selection , over temperature and low temperature limit.
Cool/heat regulation.

CONTROL PANEL

Setpoint temperature and time indicator.
Temperature limit indicator.
Timer virtual pushbutton.
Reverse virtual pushbutton.
Start virtual pushbutton.
Stop virtual pushbutton.
Programming virtual pushbutton.

BACK PANEL

Power output (SCHUKO plug) 3100 W at 230 V.
Protection fuse.
Pt100 probe connection.
K type probe connection.

APPLICATIONS

Digital thermometer from -150 °C to 1300 °C.
To control and display temperature in any equipment with temperature control system, that uses a contact thermometer, such as: Baths, Immersion thermostats, Hotplates and Hotplate stirrers, Heating and cooling equipments, etc... (temperature from ambient +5 °C to 1300 °C.
Can also be used by a immersion thermostat controlling a heater element. (maximum power 3100 W).

MODEL

Part No.	Height / Width / Depth cm (exterior)			Max. power W (at 230 V)	Weight Kg
3000897	10.5	13.5	21	3100	1.250

ACCESSORIES

Pt 100 probe. Immersion dimensions: 4 mm Ø, 130 mm length. Cable: 150 cm length.
Part No. 1000893
Type K probe. Immersion dimensions: 2 mm Ø, 150 mm length. Cable: 150 cm length.
Part No. 1000895

Electronic contact thermometer “Sensoterm II”

DIGITAL DISPLAY, PT 1000 PROBE, AISI 304 STAINLESS STEEL.
STABILITY ±1 °C, ±1 DIGIT. RESOLUTION ±1 °C.



ONLY SUITABLE FOR INSTRUMENTS THAT CAN USE AN ELECTRICAL CONTACT THERMOMETER.

FEATURES

Advantages include a separate temperature probe that maintain the main body away from steam and other vapours. Safer than a glass contact thermometer, eliminating the risk of broken it and a mercury spillage.
Main body made of ABS plastic.

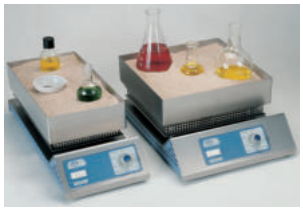
TECHNICAL DATA

Temperature range: from -50 °C to 300 °C.
Temperature probe: 3.5 mm Ø x 250 mm immersion.
Temperature Display: 8 mm high LCD display.
Ambient working range: 0 to 60 °C and a relative humidity of 80 %.

MODEL

Part No.	Height / Width / Depth cm (exterior)			Weight Kg
1001009	13	7	2.4	0.250

Instruments that can use the electronic controller “Electemp-TFT” and the electronic contact thermometer “Sensoterm”.



Sand Bath
“Combiplac-Sand”
Parts No. 6000708 and 6000709.



Hotplate - Rectangular
“Combiplac”
Parts No. 3000156 and 3000718.



Hotplate - Circular
“Combiplac”
Parts No. 3002301 and 3002302.



Magnetic Stirrers “Agimatic”
Parts No. 7000271, 7000273, 7000272, 7000280, 7000281, 7000837 and 7000838.