

Heat Treatment Units

WELDOTHERM®-VAS with DIGIT 1000

WELDOTHERM® VAS unit with multiple zone temperature control system Digit 1000 offer you state-of-the-art technology. With this technology, the usual individual programmers are replaced with controller modules, which are operated via a touch panel. Up to 36 control zones can be programmed. The zones can be controlled individually, in groups or in a network and in a time- and temperature-independent manner. The Digit 1000 can be monitored and controlled at the PC.

The user can be informed per e-mail about all relevant data and can intervene in the process via GSM modem by means of a mobile phone.

The heating current monitoring detects defective heating elements and with the extended contactor monitoring contributes to the highest process reliability.

All measured values are recorded digitally and saved on a CF-card. They can be transmitted via USB connection.





Calculator for suitable heaters



Operation



Temperature/Time diagram

Heat Treatment Units



045.4	A	В	C III	D	E	F	G	H
1	Menu	Glühdaten Weldotherm Digit 1000						
2		Zone	1	2	3	4	5	6
3		Vorlauf	0	0	0	0	0	0
4		Rampe	700	310	320	330	340	350
5		Temp	700	310	320	330	340	350
6		Zert	60	30	30	30	30	30
7		Rampe	700	300	300	300	300	300
8		Temp	0	610	620	630	640	650
9		Zeit	0	30	30	30	30	30
10		Rampe	0	300	300	300	300	300
11		Temp	0	310	320	330	340	350
12	Glühdaten ausgelesen	Zeit	0	30	30	30	30	30
13	am:	Rampe	0	310	320	330	340	350
14	24.02.2011 09.29	Temp	0	25	25	25	25	25
15								
16								
17								
18		-						
20								
					- And other Control	1210	arroson.	
21			Prozessdaten Weldotherm Digit 1000					
22		Zone	0	0	0	0	0	0
23		Soll	455	464	475	483	494	504
24		Ist	455	464	475	483	494	504
25		Zeit	29	29	29	29	29	29
26	Prozessdaten	Stellwert	43	44	45	46	47	48
27	ausgelesen am:	Heizstrom				T. Commission		
28	24.02.2011 09:33	Status			and the	1-11-12		
29					11017	-	-	

Display of actual data of Digit 1000 in Excel

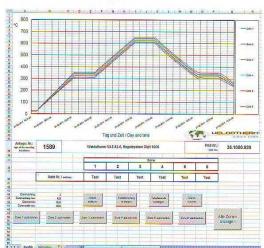


Chart display in Excel

Technical specifications

Program controller	Basic design: 6 independent control zones,
	model K, NiCrNi, relay output
	12 independent control zones, type K, NiCrN

Ni, relay output

Programmable characteristics:

Start temperature -100 to 1200°C Heating-up gradient 0 to 9998 K/h (9999 = step) Cooling-down gradient Holding time 0 to 9998 K/h (9999 = step) 0 to 9998 minutes (9999 = infinite) Holding temperature -50 to 1200 °C Program length 7 program phases and a lead time

20 program memories, several thousand via recipe function serial, via all control zones Storable programs Program linking

Program input
Program correction Touch screen, USB keyboard or USB mouse at any time, even during running program exchangeable Lithium battery, data preservation for approx. 5 years Program back-up

Control parameters all relevant parameters can be adjusted

in the controller set-up
Two-point controller, PID controller with self-Control behaviour optimisation, P-controller

Thermocouple type K, J, R, S, E, T, B, N, PLII, WRe5-26, U, L Controller input Resistance thermometer model Pt100, JPt100

floating relay output, 240 V AC, 2 A \pm 0.7 % of the input range, \pm 1 digit Control system consists of the components Controller output Overall error Configuration touch screen, function modules for 35 mm

rail acc. to DIN 46277 100 - 240 V AC + 10 %/- 15 %, 50/60 Hz 70 VA Power supply Environmental conditions 0 - 55 °C, atmospheric humidity 5 - 95 % without condensation

Dimensions touch screen 10.4" 12.1" Visible diagonal 26.4 cm 30.7 cm Dimensions 303.8 x 231.0 x 69.0 326.4 x 259.6 x 69.0 289.0 x 216.2 313.0 x 246.2 Front touch screen IP65; built-in parts IP20 Front panel cut-out Type of protection

Order No.	Item	
100600	VAS 45-6 with DIGIT 1000 and temperature recorder BH60-6	
100700	VAS 82-6 with DIGIT 1000 and temperature recorder BH60-6	
100701	VAS 82-12 with DIGIT 1000 and temperature recorder BH60-12	
100800	VAS 130-6 with DIGIT 1000 and temperature recorder BH60-6	
100801	VAS 130-12 with DIGIT 1000 and temperature recorder BH60-12	*
100900	Modem, aerial, heating current monitoring, 6-channel	
100901	Modem, aerial, heating current monitoring, 12-channel	



WELDOTHERM® Measuring Device MK 1300

WELDOTHERM® MK 1300 is a handy, quick and precise temperature measuring device. This can also be used as a precision voltage transmitter for the measuring range of NiCr-Ni $0-1200\,^{\circ}$ C. The device is equipped with a comparison measuring point! The accuracy is $\pm\,0,15\,\%$ of the measuring

range! In combination with a surface sensor the MK 1300 can be used for measuring surface temperatures.



MK 1300

Technical Data

Display temperature: Display operating mode Calibrating/measuring: Display battery status: Dimensions (W x H x D): Weight: 7 segments, red 1 x LED, blue 1 x LED, red 180 x 80 x 180 mm 3,1 kg

Order No.	Item
400400	WELDOTHERM® MK 1300, NiCr-Ni
400401	Spare charging cable
400402	Hard-top case
400403	Multi-Quick-Plug for presetting of 6 measuring points during temperature recorder calibration
400404	Surface Temperature Sensor NiCr-Ni, 300 mm long, handhold, 1 m connection cable, thermocouple plug

WELDOTHERM® Measuring Device BP 20

WELDOTHERM® BP 20 is an infrared temperature measuring device, cell phone sized. It is equipped with a dual target laser for focusing the measuring point. The emission factor can be adjusted.

The LCD display is well readable because of its size and its backlight. The infrared measuring range is $-35\,^{\circ}\text{C...} + 800\,^{\circ}\text{C.}$



Technical Data

Measuring range infrared: Accuracy IR-sensor: -35°C...+800°C
-35°C...+20°C = ±2,5°C
+21°C...+300°C =
±1% of indicated value
+301°C...+800°C =
±1,5% of indicated value
0...50°C
82 x 42 x 160 mm
180 g
Device with batteries, hand strap,

Weight: Scope of supply:

Order No.

400500

Working temperature:

Item
BP 20

protection case, operation manual

BP 20