MOUNTING DIMENSIONS
as from DIN 43700 rules

Fixing flasks for assembly on panels

Faston plug-in connectors (included in the supply)

Suitable also for trip assembly on "OMEGA"
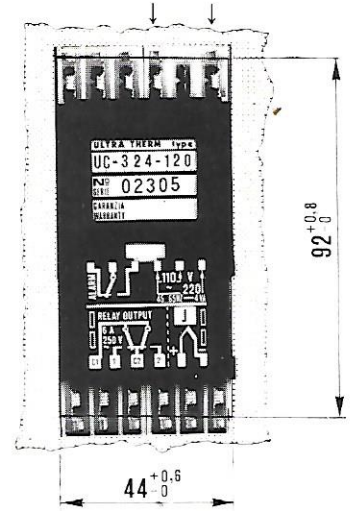
35 X 7,5 EN-50022

Working temperature −10... + 55°C

PROTECTION
Front   IP 50
Case   IP 30
Terminals IP 00
Weight ≤ 400 g.

96 / 48 / 96 / 100 / MAX 15 / 7,5

PANEL CUTOUT

ULTRA THERM type
UC-3 2 4-120
N° 02305

$92^{+0,8}_{0}$ / $44^{+0,6}_{0}$

Componibile modular assembly on control panel or 19" rack frames – Panel cutout $92^{+0,8} X 48 X N° – 4$

UA·300·120   UA·320·120   UA·401·120   UA·305·120   UC·321·120   UC·324·120   UD·324·522   UC·304·126

AVAILABLE VERSIONS AND ORDERING CODE

BASIC MODEL	Code
ULTRA-THERM temperature controller:	U

U ▪ ▪

DISPLAY UNIT

Analogic deviation indicator	**A**
Logic 3 digits real value	**C**
Logic 3½ digits real value	D
Without display unit	0

1st CHANNEL OUTPUTS (Heating)

OUTPUT TYPE		ACTION	
		P (On-Off)	1
Relay	**6A - 250V a.c.**	**PD + PI**	**3**
Logic for external static relais		" "	4
Direct current 0.....20 mA (500Ω)		" "	5
Static with SCR of 15A included	PD + PI		6*
As. above+soft-start and AUT-MAN selector	"	"	7*
3 positions (for servo-motors)	PI		8*
Special version			?
Without 1st channel output			0

2nd CHANNEL OUTPUT (Cooling)

OUTPUT TYPE		ACTION	
Relay	**6A - 250V a.c.**	**PD (On-Off)**	**2**
Logic for static relais	PD	" "	4
Direct current 0.....20 mA	"	"	5
Special versions			?
Without 2nd channel output			0

3rd CHANNEL OUTPUTS (Alarm) ▬ = Energized relay

Limit deviation	**High**	**1 relay**		**1**
△ W ± 10%	Low	1 relay		2
Band deviation (symmetric)	**ON... OFF...ON**	**1 relay**		**3**
± 1...10%	OFF...ON... OFF	1 relay		4
MIN. ...0 ...MAX. independent limit ± ...10%		2 relais		5*
Without output				0

* These outputs can be used only without the 2nd channel
ACCESSORIES: DS = Heat-sink for static control, coupled to the case

Ordering example:

SPECIFICATIONS	QUAN-TITY	CONTROLLER ULTRA THERM	3 DIGITS DISPLAY	OUTPUTS			MEASURE FIELD	VOLTAGE-OPTIONALS
				1st RELAY PD + PI	2nd RELAY PD	3rd NO	0 .. 399 °C	110 or 220V
								NO

N°: ....   U C - 3 2 0 - 1 2 0

Code OPTIONALS

0	Without optionals
1	Terminals for 1 mV°/digit measurement signal output (R ≥ 300)
2	Terminals for °C deviation signal output
3	Safety against short-circuited resistance thermometer, (Pt 100 ≤ 30 Ω) with output OFF.
4	Safety against probe breakdown with output ON. (In the standard version is with output OFF.)
5	Remote set point
6	1st channel output with starting power limitator (soft start)
7	1st channel output with starting power limitator and manual-automatic selector
8	Controllers with built-in static relay without fuse link
?	Special version as coustomer's specifications (valid also for more options)

POWER SUPPLY

1	100/200 V a.c.	Tolerance
2	**110/220 V a.c.**	+ 10% - 15%
3	120-240 V a.c.	50 ... 60 Hz
4	24/220 V a.c.	
5	48/220 V a.c.	Power consumption ≤ 4 VA

MEASUREMENT FIELDS AND INPUTS

	THERMOCOUPLE DIN 43710 o NBS		Deviation indicator (UA)
1	0.....399°C Fe-Const.	(J)	- 30....0...+30
2	0.....599°C Fe-Const.		- 30....0...+30
3	0.....399°C NiCr-Ni		- 30....0...+30
4	**0.....999°C NiCr-Ni**	**(K)**	- 30....0...+30
5	0.....1199°C NiCr-Ni		- 30....0...+30
6	600..... 1600°C PtRh-Pt 10%	(S)	- 30....0...+30
	RESISTANCE THERMOMETER DIN 43760		
7	± .....99°C	(RTD)	- 30....0...+30
8	0.....99,9°C Pt 100 Ω°C		- 30....0...+30
9	0.....399°C		- 30....0...+30
?	For other available ranges see our price list.		

In boldtype the basic version.
? Special version to be specified in the order