

SMART HEATER VARITHERM HI System

4 Function

- PID controller, with either the integrated or the external temperature sensor serving as actual value sensor.
- Electronic temperature limiter.
- Proportional actuator, consisting of an integrated zero voltage switch and a triac as switching element.

5 Technical Data

5.1 SMART Controller

CSA Certificate	1655545 (LR43674)
CSA Type of Protection	Cl. 1, Div. 1, Grp ABCD T3/ T4
Ingress Protection	IP65
Nominal voltage	120 V AC
Minimum power	30 W
Maximum power	1200 W
Maximum Temperature	max. 80°C (box) -58°F to +176°F/ -50°C to +80°C*
Conduit connection	½" NPT
Dimensions (Height x Width x Depth)	4.3" x 5.1" x 5.1"/ 110 x 130 x 130mm
Material	seawater proof aluminium; coated

* see data sheet HD253

5.2 CP VARITHERM CPA ... 100 HI

Type	..500 T3..	..400 T4..	..500 T4..
Nominal power	500 W	400 W	500 W
Temperature class	T3	T4	
CSA Certificate	1655545 (LR43674)		
CSA Type of Protection	Cl. 1, Div. 1, Grp ABCD T3/T4		
Ingress Protection	IP 68		
Nominal voltage	120 V AC		
Operating temperature range	-58°F to +356°F/ -50°C to +180°C		
Connection cable	Silicone cable, notch and oil resistant, 3x1,5mm ² 8,1mm Ø		
Conduit connection	½" NPT		
Dimensions (Length x Width x Height)	8.7" x 8.4" x 3.9"/ 220 x 213 x 100 mm		
Material	seawater proof aluminium; black anodized		

Ordering example: SMART HEATER with CP VARITHERM CPA 400 T4 100 HI

6 Options

E (Standard)	Intrinsically safe external sensor
Additional conduit entry for fieldbus connection	
3M	Length of intrinsic safe sensor cable in meters (any length)

Further options upon request, e.g.

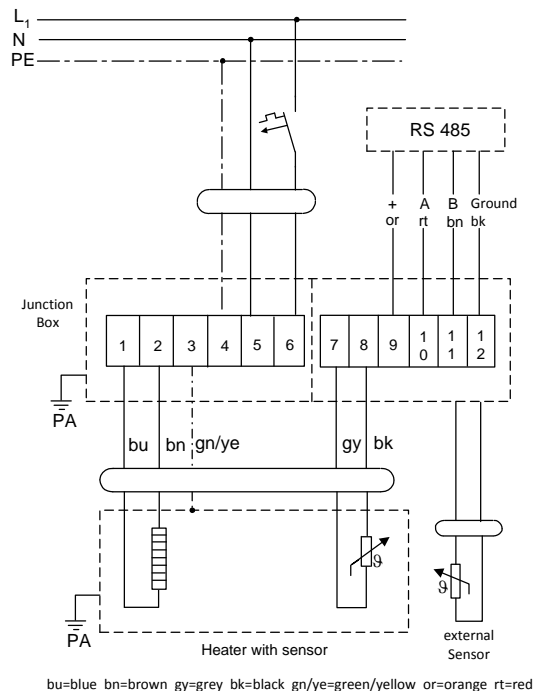
- Other operating voltages
- Other designs of sensor (2 mm diameter),
- IEC ATEX GOST Explosion protection certificate

7 Parameter

For factory programming, please specify the following parameters when placing an order:

Parameter	Default value
Setpoint	122° F/ 50° C
Temperature class of the heater	T3
Address in the RS485 network	0
Power frequency	60 Hz at 120 V

8 Electric Wiring



bu=blue bn=brown gy=grey bk=black gn/ye=green/yellow or=orange rt=red