





# SMART HEATER VARITHERM HI System

## 4 The SMART controllers' functionality

- PID controller
- Temperature limiter

It consists of an integrated zero voltage switch, a triac as switching element and a thermistor (NTC) as sensor. The electronics are completely encapsulated. The sensor is integrated into the housing.

## 5 Explosion protection

EC Examination certificate	PTB 04 ATEX 2022 X
	PTB 02 ATEX 1041 X
IEC Scheme Certificate	IECEX PTB 08.0011X
	IECEX PTB 07.0052X

## 6 Types and Technical Data

### 6.1 SMART Controller

IEC Scheme Type of Protection	Ex e mb [ib] IIC T4 Ex tD A21 IP66 T130°C
GOST Certificate	Yes
Nominal voltage	230 V AC .. 250 V AC
Power minimal / maximal	60 W / 2300 W
Operating temperature range	max. 80° C (box) -50°C to +80°C *
Connection cable	2 x M20
Ingress Protection	IP66
Material	Seawater-proof aluminium, black anodized
Dimensions (H x W x D)	57 x 125 x 80 mm

\* see data sheet [HD252](#)

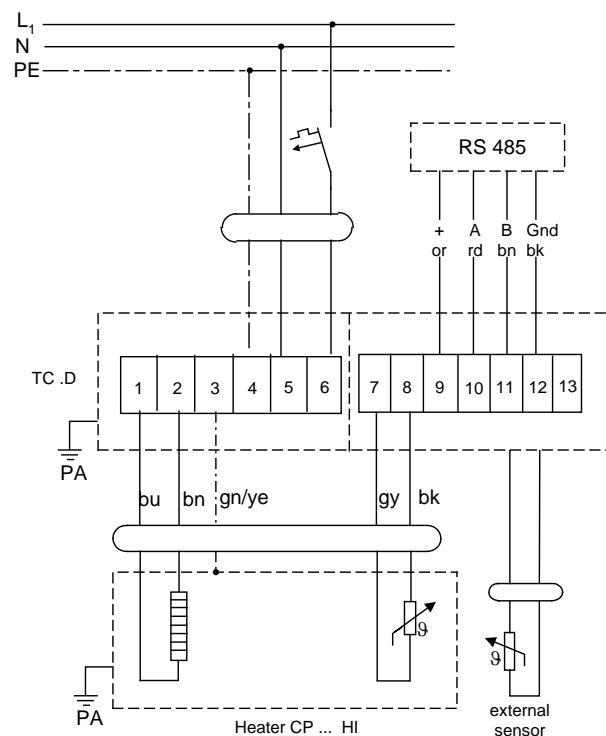
### 6.2 CP VARITHERM DPA ... 120 HI

Type	..500 T3..	..200 T3..	..200 T4..
Nominal power	500 W	200 W	200 W
Temperature class	T3	T3	T4
Operating temperature range	-60° to +180° C		
IEC Scheme Type of Protection	II 2G Ex db IIC T6, T5, T4, T3 II 2D Ex tb IIIC T85°C T100°C, T135°C, T200°C		
GOST Certificate	Yes		
Ingress Protection	IP68		
Nominal voltage	230 V AC		
Dimensions (H x W x L)	120 x 213 x 220 mm		
Material	Seawater-proof aluminium, black anodized		

## 7 Options

3M	Connection cable 3 m long
120 V	Nominal voltage 120 V AC
240 V-250 V	Nominal voltage 240-265 V AC
KLE	Additional cable entry for fieldbus connection

## 8 Electric wiring



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

