



rosenthal design



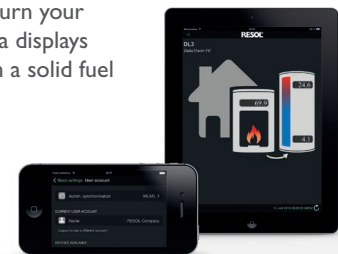
## DeltaTherm® FK

The **DeltaTherm® FK** solid fuel boiler controller has been especially developed for systems with solid fuel boilers, water heating stoves or pellet stove heating systems. With the integrated PWM outputs, the FK can manage the speed control of 2 high-efficiency pumps.

With its easily configurable optional functions, the versatile software allows for the control of an electronic mixer for the return mixing function, a thermostatic backup heating, a target temperature control function and many more.

## VBus®Touch FK

With **VBus®Touch FK** you can turn your mobile devices into remote data displays for your RESOL controller with a solid fuel boiler function.



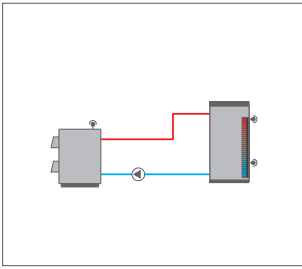
## The biomass specialist!

- 2 relay outputs, 4 temperature sensor inputs
- 2 PWM outputs for the speed control of high-efficiency pumps
- Control of an electronic mixer for the return mixing function
- Heating backup
- Heat exchange function
- Thermostatic backup heating

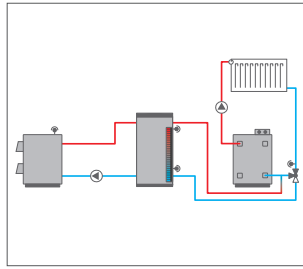
In order to connect sensor 4 to the controller, a sensor adapter cable is required

Article no.	Article	Price bracket
115 002 83	<b>DeltaTherm® FK</b> – Solid fuel boiler controller	A
115 002 93	<b>DeltaTherm® FK</b> – Full kit » incl. 3 Pt1000 sensors (1 x FKP6, 2 x FRP6)	A

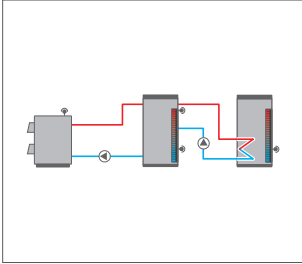
## EXAMPLES



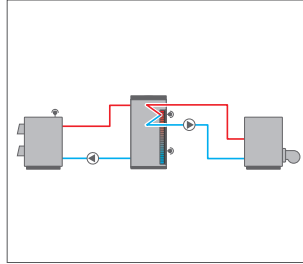
Solid fuel boiler



Solid fuel boiler with heating circuit return preheating



Solid fuel boiler with heat exchange control



Solid fuel boiler with thermostatic backup heating

## TECHNICAL DATA

**Inputs:** 4 Pt1000 temperature sensors

**Outputs:** 2 semiconductor relays, 2 PWM outputs

**PWM frequency:** 1000 Hz

**PWM voltage:** 10.5 V

**Switching capacity:** 1 (1) A 240 V~ (semiconductor relay)

**Total switching capacity:** 2 A 240 V~

**Power supply:** 100–240 V~ (50–60 Hz)

**Supply connection:** type X attachment

**Standby:** 0.46 W

**Mode of operation:** type 1.C.Y action

**Rated impulse voltage:** 2.5 kV

**Data interface:** VBus®

**VBus® current supply:** 35 mA

**Functions:** minimum and maximum temperature limitation, mixer control for the return mixing function, target temperature control, speed control, heating circuit backup, thermostatic backup heating, heat exchange, PWM pump control, operating hours counter

**Housing:** plastic, PC-ABS and PMMA

**Mounting:** wall mounting, mounting into patch panels is possible

**Indication / Display:** full graphic display

**Operation:** 3 buttons

**Ingress protection:** IP 20/EN 60529

**Protection class:** I

**Ambient temperature:** 0 ... 40 °C

**Degree of pollution:** 2

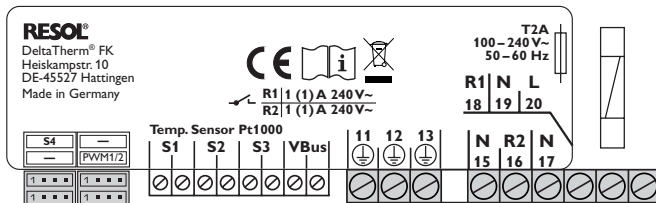
**Relative humidity:** 10 ... 90 %

**Fuse:** T2A

**Maximum altitude:** 2000 m above MSL

**Dimensions:** 172 x 110 x 46 mm

## ELECTRICAL CONNECTION



## ACCESSORIES

### DL2 Plus Datalogger



For remote access to 2 controllers, integrated data logging and connection to a BMS

### VBus®/USB interface adapter



PC connection kit for RESOL controllers with VBus® incl. Service CD

### SDFK Smart Display



Display module with 3 displays for biomass boiler temperature and store temperature as well as for the pump status

### AM1



Alarm module for signalling system failures

### VBus®/LAN interface adapter



Network connection set for RESOL controllers with VBus® incl. Service CD

### Sensor adapter cable



JST adapter cable for systems in which the 4th sensor is required