



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 e. g. for the control of an electronic mixer for the return mixing function, a thermostatic backup heating, a target temperature control function and many more.

Customised and OEM versions are available on request. Please contact our sales team.



HE pump control



VBus.net



VBus® Apps

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

RESOL *DeltaTherm® FK*

Price bracket A | Article no.: **115 002 83**

RESOL *DeltaTherm® FK – Full kit*

Incl. 3 Pt1000 sensors (1 x FKP6, 2 x FRP6)

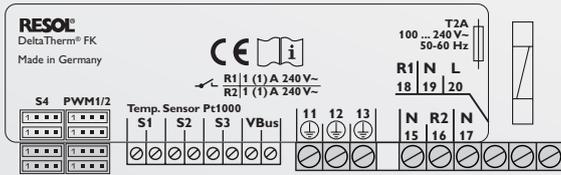
Price bracket A | Article no.: **115 002 93**

A PWM adapter cable is included with the controller. In order to connect sensor 4 to the controller, a sensor adapter cable is required.

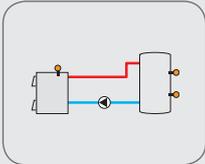
Manuals available:



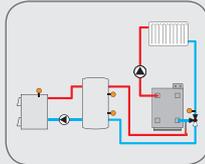
ELECTRICAL CONNECTION



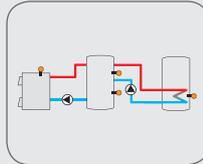
EXAMPLES



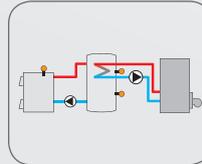
Solid fuel boiler



Solid fuel boiler with heating circuit return preheating



Solid fuel boiler with heat exchange control



Solid fuel boiler with heat exchange control

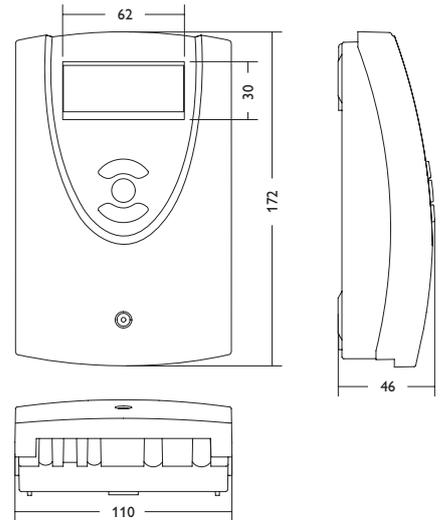
VBus®Touch FK

With VBus®Touch FK (see page 58), you can turn your mobile devices into a remote data display for your RESOL controller with a solid fuel boiler function.

Visit www.resol.de/videos for a product video



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 Y attachment

Standby: 0.46 W

Mode of operation: type 1.C.Y action

Rated impulse voltage: 2.5 kV

Data interface: RESOL 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 push buttons

Ingress protection: IP 20/EN 60529

Protection class: I

Ambient temperature: 0 ... 40 °C

Pollution degree: 2

Dimensions: 172 x 110 x 46 mm

ACCESSORIES

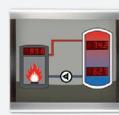
RESOL DL2 Datalogger



For visualisation via VBus.net, incl. SD card and network cable, mains adapter and VBus® cable pre-connected

Price bracket A | Article no.: **180 007 10**

RESOL SDFK Smart Display



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

Price bracket A | Article no.: **180 010 80**

RESOL sensor adapter cable



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

Price bracket C | Article no.: **112 041 33**

RESOL AM1



Alarm module for signalling system failures

Price bracket B | Article no.: **180 008 70**

RESOL VBus®/LAN interface adapter



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

Price bracket B | Article no.: **180 008 80**

RESOL VBus®/USB interface adapter



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

Price bracket B | Article no.: **180 008 50**