TPIG11

Thermoprotect Frost Protection

Installation Guide

Please ensure you have read and fully understood this manual prior to installation.

thermoprotect

FROST PROTECTION SYSTEMS

thermoprotect
FROST PROTECTION SYSTEMS

Introduction...

Please ensure you have thoroughly read and understood these instructions and the safety notes before commencing installation.
Retain this leaflet for future reference.

After unpacking and before commissioning make sure that the heating cable and all the accessories concerned are in perfect working order.
If damage in transit is observed contact the dealer or manufacturer immediately.

The heating cable is only permitted for connection to 230 V ~ / 50-60 Hz AC.

The safety and installation instructions must be followed accurately. Failure to do so will result in a void warranty.

Safety Notes...

· Only a 230 V ~, 50/60 Hz mains socket may be used as the power source. Never try to operate the device with any other voltage.

· Consult a specialist if you are in any doubt about how to operate and connect the device or about any safety issues.

· Never connect the heating cable to the mains voltage when coiled. This may result in damage to the cable or a fire due to overheating.

· The minimum bending radius of heating cables of 2.5 cm must not be exceeded.

· When work is being done on the heating cable or in its vicinity, the device must be disconnected from the mains.

thermoprotect
FROST PROTECTION SYSTEMS

· Always remove the mains plug from the socket before cleaning the device. Clean with a damp (not wet) cloth only.

· If the device is not to be operated for some time, always remove the mains plug. During this period keep your heating cable in a protected, dry place.

· These operating instructions form part of the device and should be kept in a safe place. If the device is passed on to third parties it should be accompanied by these operating instructions.

· If you are not clear about how to connect the device, or if questions arise which are not explained in the operating instructions, contact the manufacturer or a specialist.

· The plug connection must not be subjected to tension, pressure or torque.
· For safety reasons all metal pipes must be earthed.

· When assembling make sure that the connecting cable is not squeezed or damaged by sharp edges. If any open sections are created as a result of such damage the device must be disconnected from the mains supply immediately.

thermoprotect
FROST PROTECTION SYSTEMS

Installation and operation...

Thermoprotect is designed for use in wet areas and therefore must only be connected to RCD protected circuits. If a multiple socket or an extension cable is used, make sure that the maximum current carrying capacity is not exceeded.

Lay the connecting cable so that you cannot trip over it and so that it cannot be squeezed or come into contact with hot objects. Only use extension cables which conform to the power rating of the device and comply with the applicable safety regulations.

Pipe heating - Thermoprotect EZ

a) Preparing the pipe:

Before you fit the heating cable make sure that the area around the pipe is freely accessible and that there are no sharp edges.

b) Fitting the heating cable:

The heating cable can be laid underneath the pipe, but it can also be wound round the pipe, according to the heating power required – minimum distance between the loops approx. 10 cm.

Secure the heating cable to the pipe at regular intervals with adhesive tape or cable ties to guarantee continuous contact between the heating cable and the pipe.

Attention! When using with plastic pipes...
The pipes must be wrapped with aluminium tape before the heating cable is fitted. In principle heating cables must not be secured directly to plastic pipes or plastic parts. For better heat transmission with plastic pipes, the entire pipe must be wrapped once again with aluminium adhesive tape after fitting heating cable.
(Aluminium Tape Stock Number: **5676**)

thermoprotect
FROST PROTECTION SYSTEMS

c) Fitting pipe insulation:

Fitting additional insulation around the pipe is recommended. For this purpose commercially available, heat resistant foam pipe insulation materials may be used (k value at least 0.035 W/mK). The thickness of the insulation must not exceed 20 mm.

d) Commissioning:

After installation, and before the first cold spell arrives, insert the mains plug into the socket (or switch on isolator switch if connected directly into mains supply).

Gutter heating

a) Preparation

Before attaching the heating cable, make sure there are no sharp edges near the cable fitting.

b) Attaching the heating cable

For conventional semicircle gutters, an energy requirement of approx. 30 W/m is sufficient. This also applies for downpipes. The heating cable must thus be laid twice in the gutter/downpipe (in-feed and re-feed).

During installation, make sure the heating cable in-feed and re-feed do not touch or cross each other, as this can result in overheating and the cable being destroyed. To avoid this use Gutter Spacers (5678).

For box gutters, there should be a distance of 50mm to 75mm between cables, so as to prevent frost. Use appropriate spacers here as well.

thermoprotect
FROST PROTECTION SYSTEMS

b) Positioning thermostat (Thermoprotect PRO only)

The thermostat is located at the end of the heating cable (within the sealed end). It is important for the thermostat to lie with the flat side tightly on the pipe.
Fix it with adhesive tape (cable ties or aluminum tape).
It should be fitted on the pipe at the position most at risk.

The thermostat does not switch on the heating cable until the ambient temperature falls below approx. +5°C (measured in the location of the thermostat).

Tip:
Downpipes should be heated as far as the ground frost area. Consult local building regulations for details.

c) Start-up:

After installation and before the first cold spell arrives insert the mains plug in the socket (or switch on isolator switch if connected directly into mains supply).

Cleaning, repair and disposal

- Do not use any lubricants or detergents.
- Remove the mains plug before carrying out any cleaning.
- Clean the housing with a damp cloth only (not a wet one).
- Never immerse the device in water.
- Take devices to be disposed of to a suitable reception facility.
- Repairs to the device may only be carried out by authorised specialists. Therefore please contact the manufacturer or dealer. If repairs are not carried out correctly the warranty becomes void.
- Repairs incorrectly carried out may present a risk to the user and other people.

thermoprotect
FROST PROTECTION SYSTEMS

Warranty and service

We provide a 10 year manufacturer's warranty (from date of purchase) on Thermoprotect Frost Protection Cables and a 3 year manufacturer's warranty (from date of purchase) on Thermostats. Excluded are accidental damage, damage due to external violence, improper use and failure to follow these operating instructions, cleaning and maintenance work.

The manufacturer accepts no liability for any damage due to frost, inadequate heating power or insufficient heat insulation.

EcoSwitch

Either system can be used in conjunction with the Thermoprotect EcoSwitch (5678). EcoSwitch acts as an overriding thermostat and can be programmed to a desired temperature detected by a remote sensor probe.

This accurate control method eliminates trickle voltage and improves energy efficiency.

If you are unsure of anything or have any questions please contact us on 08700 41 21 41 or sales@thermogroupuk.com

Thank you for choosing Thermoprotect Frost Protection Cables.

Thermogroupuk
Bridge House
Hop Pocket Lane
Paddock Wood
Kent
TN12 6DQ

T: 08700 41 21 41
F: 08700 41 21 40

www.thermogroupuk.com
sales@thermogroupuk.com

OHSAS 18001 REGISTERED FIRM

ISO 14001 REGISTERED FIRM

ISO 9001 REGISTERED FIRM

Thermogroupuk
SUSTAINABLE HEATING SOLUTIONS

E323251

10 YEAR warranty