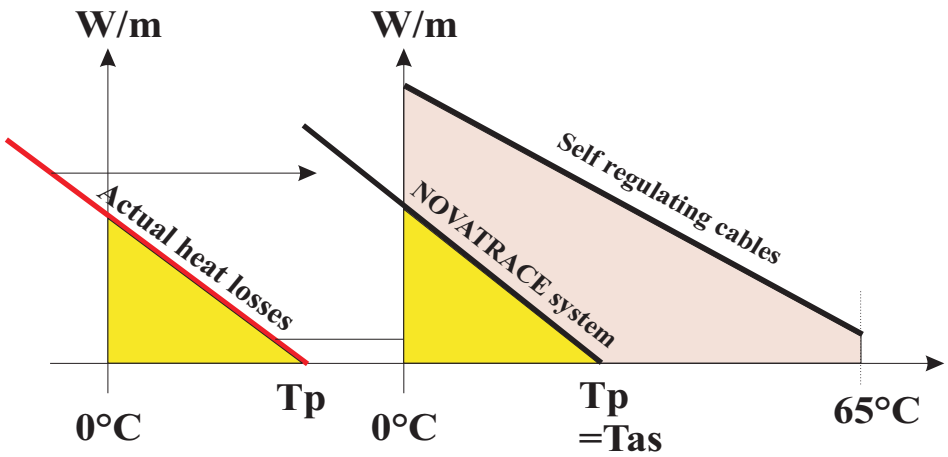
Regulation system

NOVATRACE

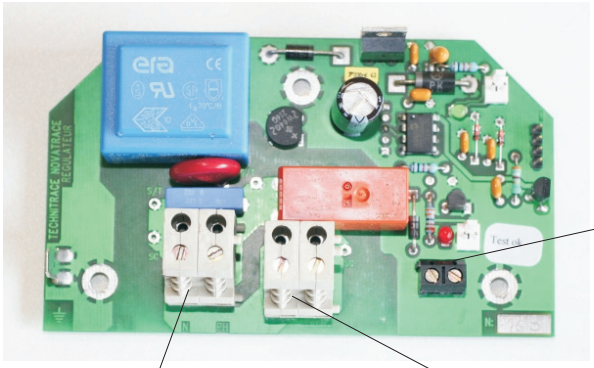
NOVATRACE system concerns both chronological and proportional ambience regulation. A micro controller continuously measures the ambient temperature and automatically switches the system ON or OFF, according to the evolution of this temperature.
In fact, the heat requirement for the pipe is directly dependent on ambient temperature (Q=F(Ta)) regardless of the operating conditions of the pipe. The temperature measurement is done through a sensor located on the electroniccard and the voltage is done both ways --> proportional and chronological.
At every moment, the delivered power fits perfectly with the real need of the system.

The NOVATRACE system allows a perfect monitoring of energy and temperature on the whole length of circuits.

NOVATRACE system versus
traditionnal self regulating cables



TECHNITRACE câbles chauffants



terminals block
forced connection / timer

Input 230V
16 Amps

Output 230 V / 16 A
chronological, proportional
and monitored

Main advantages

Simplified programming of required power at 0°C and of process self regulated temperature through Rs232 series connection with a computer
Wide temperature range : from 5°C to 150°C
No ageing of the heating element
No risk of overheating at dead legs
Evolutionary system (Po and Tas parameters can be modified)
Input voltage 230V or 400 Volts (to be specifed)
Integrated cold leads while cable manufacturing process
No inrush current under start up conditions
No requirement of other regulation system
Energy saving as the delivered power on the whole nets fits with actual heat requirements.

NOVATRACE system, joined with PCMT or PCHT heating cables is ideal system to maintain ECS pipes at temperatures from 65°C to 75°C.
It offers the possibility to obtain heat up sequences, so allowing to destroy legionellose with thermal peaks above 75°C.