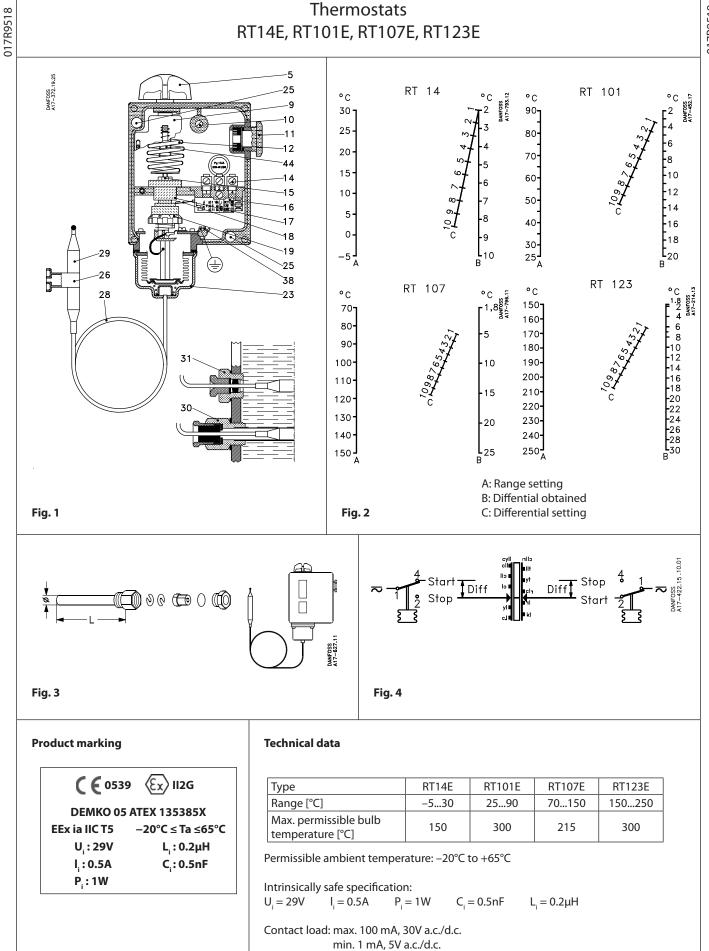
# Instructions



017R9518



017R9518

# Installation

RT units can be fitted in any position. Use the mounting holes (25). With outdoor installation, the unit should be protected against rainfall. The bulb should be fixed to the wall by means of a bulb holding bracket (26). If it is desired to install the bulb in a water or brine tank, this can be done by using either a capillary stuffing box (31) or a bulb pocket (30). If bulb pocket is to be used, for correct bulb fitting see fig. 3.

# **Electrical connection**

See fig. 4.

START = make. STOP = break. DIFF. = differential. Cable diameter: 6-14 mm The earth terminal (38) should be connected to earth.

# Adjustment

Set the thermostat for minimum actuating temperature (range setting). Setting is done by rotating the knob (5), at the same time reading the main scale (9).

The differential is set by rotating the differential adjusting nut (19) according to the nomogram concerned (fig. 2).

Maximum actuating temperature is the sum of the temperature setting and the differential.

# Example:

An RT 123 is required to regulate the temperature in a drying oven. Max. temperature 188°C, min. temperature 180°C, differential 188 - 180 = 8°C.

1. Set the thermostat on 180°C with the knob (5).

2. Set the differential adjusting nut (19) on number 3 which can be found by reading off the nomogram for the RT123 in fig. 2.

In general, turning the knob automatically moves both the maximum and minimum actuating temperatures (break and make) up or down because of the fixed differential. On the other hand, turning the differential adjusting nut only, alters the maximum actuating temperature.



- The refrigeration system must always comply with European Ex installation standard, EN 60079-14, any local directive and legislation as well as any other regulation applying in the area of installation.
- 2) RT-E thermostat must be used only with reliable means of limiting the voltage and current to prevent sparks between the contact surfaces. The equipment to be used for electrical load limiting must be certified for gas group IIC. Also RT-E thermostat must be installed as a part of IIC electrical installation.
- 3) Cable and cable entries approved for the application must be used. Cables must not be in contact with sharp edges. The cable must be connected with adequate stress relief in order to prevent that pulling forces can be carried through the cable to the terminal.
- 4) The cycle frequency of the RT-E switch must be kept as low as possible to prevent fatique failure on the bellows. The vibration level must be kept as low as possible.
- 5) It is recommended to regularly check the function of the RT-E switch.
- 6) Only apparatus designed, constructed and released by Danfoss must be used for application concerned. Danfoss can accept no responsibility in case of alterations made on the thermostats or the use of them against the instructions of Danfoss.
- Any overload of the RT switch must be prevented.
  Overloaded or damaged apparatus must be exchanged.
- 8) Only authorised persons, who are certified in installing and maintaining refrigration system may do the installation, maintenance and exchange of the switch.
- 9) Use only appropriate tools
- 10) Dispose of the swith in an environmentally-friendly way.
- 11) Do not use organic solvents for cleaning RT-E thermostats.