

# TVI-FPT

## FROST PROTECTION THERMOSTAT



The TVI -FPT serie has been designed the single stage thermostat with frost protection function. It is especially manufactured for the heat exchanger (evaporation batteries) and hot-water heating registers for air conditioning systems and refrigeration and it is necessary everywhere temperature must not drop below a certain fixed safety value. All units are equipped with selfcontrol. If capillary or power element are damaged, thermostat cuts out automatically to the fail safe.

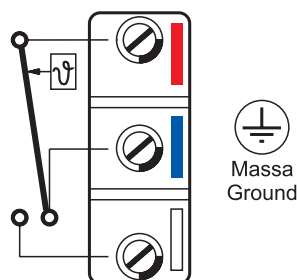
Those units are made in two versions:

- on a tropicalized steel sheet plate with polystyrene cover, not sealed IP40 according to EN 60529 (ex IEC 529), protection class I acc. to EN 60335-1 (ex IEC 335-1).

### TECHNICAL FEATURES

- Gas-filled copper sensible element with 1,8 or 3 m length bulb
- Dust-tight microswitch with switching contacts (heat/cool)
- Max. current: 15 (8) A, 24 - 250 Vac
- Working temperature: -10/+65°C
- Max bulb temperature: 200°C for max 60'
- Differential: fix
- Casing (figure 1): 115x83x53 mm

### ELECTRICAL WIRING



#### Heating

Connect red to blue terminal; the contact opens while rising of the temperature.

#### Cooling

Connect red to white terminal; the contact opens while dropping of the temperature.

The respective free contact closes simultaneously (signal contact).

## SCHEDULE

Range °C	Type	Differential °C	Protection	Max bulb temp. °C/max 60'	Capillary length m
-10/+12	<b>TVI - FPT</b>	1	IP40	200	1,8
-10/+12	<b>TVI - FPT-5</b>	1	IP40	200	3

**Special application:**

Explosion-proof case complete of fittings and CESI approval.

**Instructions of the installation:**

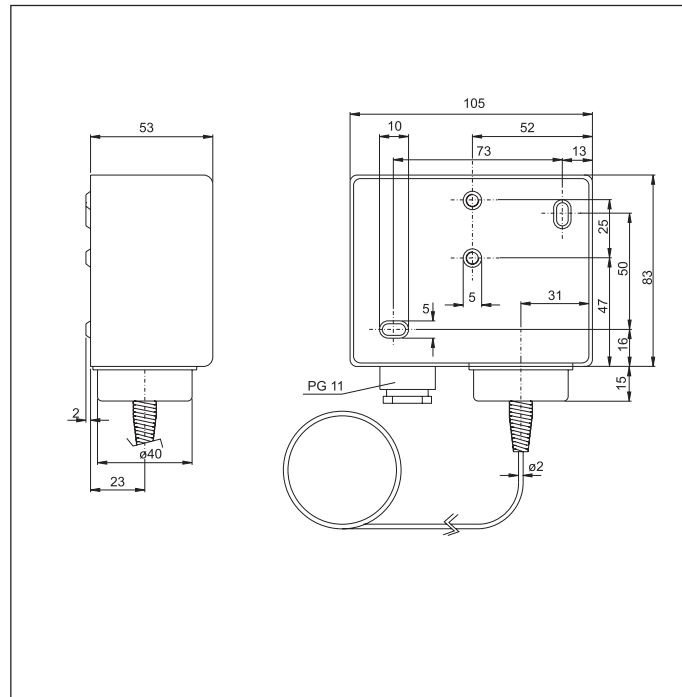
The units may be seated on the top of the setting spindle. The room temperature at the thermostat body should not fall below the setting point.

The unit with 1,8 m capillary is equipped with a power-element and only that is active.

Any position is acceptable. For mounting and connection remove the cover to gain access to fixing holes and use the supplied screws for the installation. The capillary tube must be held by the anti-kink device on the diaphragm pot during the unwinding operation.

**Warnings:**

Each single operation done on the unit, either installation or maintenance, must be done without main supply on the unit and external loads. Such operations are permitted only by skilled workers. We are not responsible for possible damages caused by an inadequate installation and/or by removed or exchanged security devices. To guarantee the sealed protection on the unit turn the cover screws and close the PG.



Sizes in mm

