



ANTIFREEZE THERMOSTATS

DBTF

FUNCTION

Frost protection for heat exchangers and hot-water registers for air conditioning and refrigeration systems.
Temperature monitoring below a certain fixed safety value.
Self-control if capillary or power element are damaged.

APPLICATIONS

Well-suited for cooling and air conditioning systems and general applications that need a temperature not below a certain fixed safety value in:

- air handling units;
- domestic and industrial areas;
- commercial buildings and sport halls.

TYPE	STAGES	HYSTERESIS IN THE STAGE K	RESET	PROTECTION	CAPILLARY LENGTH m
DBTF-1P	1	1	auto	IP54	6
DBTF-2P	1	1	auto	IP65	6
DBTF-1PR	1	FT	man	IP54	6
DBTF-2PR	1	FT	man	IP65	6
DBTF-3P	1	1	auto	IP54	1.8
DBTF-4P	1	1	auto	IP65	1.8
DBTF-3PR	1	FT	man	IP54	1.8
DBTF-4PR	1	FT	man	IP65	1.8
DBTF-5P	1	1	auto	IP54	3
DBTF-6P	1	1	auto	IP65	3
DBTF-5PR	1	FT	man	IP54	3
DBTF-6PR	1	FT	man	IP65	3

FT manual minimal reset

Accessories:

DBZ-01	pocket, brass 120 mm
DBZ-02	pocket, stainless steel 120 mm
DBZ-04	gland for capillaries in air ducts
DBZ-05	set of 6 mounting brackets for capillary fixing

TECHNICAL FEATURES

Sensitive elem.:	gas-filled copper element with bulb (1.8 m models) or gas-filled copper coil element (3 or 6 m models)
Contacts:	dust-tight microswitches with switching SPDT contacts (heat/cool)
Switch capacity:	15 (8) A, 24...250 Vac
Range:	-10...+12°C and +14...54°F
Differentials:	see schedule
Working:	-20...+80 °C 0...95% r.h. (non condensing)
Max bulb temp.:	+200 °C for max. 60 minutes
Storage:	-30...+90 °C < 95% r.h.
Housing:	cover polycarbonate, base polyamide
Protection:	IP65 o IP54, class I
Size:	130 x 130 x 70 mm
Weight:	475...574 g

Note

The room temperature at the thermostat body should not fall below the set point.

The capillary is active on full length for a minimum of 300 mm.



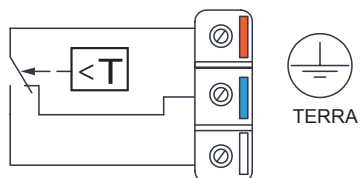
ELECTRICAL WIRINGS

Heating

Connect red terminal and terminal blue (fig. 2).
 The contact opens during the temperature increasing.
 2-stage versions: during the temperature increasing, the contact opens first in the stage 2, then in the stage 1.

Cooling

Connect red terminal and terminal white.
 The contact opens during the temperature decreasing.
 2-stage versions: during the temperature decreasing, the contact opens first in the stage 1, then in the stage 2.
 The respective free contact closes simultaneously (signal contact).



DIMENSIONS (mm)

