

# EWTB 1000 (/C, /S)

wall-mounting electronic controller for refrigerating units



## Description

EWTB 1000 controllers can be fitted on ventilated refrigerating units operating at normal or low temperatures. These controllers have two inputs for PTC thermostatic probes, three digital inputs for preheating, pressure switch, door switch and seven relay outputs to manage the compressor, the defrost cycle, the evaporators fans, the lights, the ON/OFF function, the alarm and an auxiliary output.

Defrost cycles can be stopped at a specific time or as soon as the end cycle temperature is reached (if the evaporator is equipped with a specific probe). The values measured by the probes are displayed with three digits.

These controllers are available in standard size for wall-mounting and with 230, 115, 24 V~ or 12 V~/= power supplies.

### EWTB 1000/C, EWTB 1000/S

The EWTB 1000/C and EWTB 1000/S models have an internal clock to manage the defrost cycle (Real Time Clock) and a buffer battery which allows timing even when power supply is off.

The EWTB 1000/S model also has a RS485 port for the connection of TelevisSystem.

## Technical Data

Casing: plastic, ABS UL-94 V0.

Size: front panel 211x178 mm, depth 80 mm.

Mounting: wall-mounting.

Connections: 6.3 mm Faston terminals.

Operating temperature: -5...60°C.

Storage temperature: -30...75°C.

Display: 3 digits, 12.5 mm high.

Data storage: permanent memory (EEPROM).

Analogue inputs: 2 PTC probes for temperature and defrost end control.

Digital inputs: 3 digital inputs for door switch, pressure switch and preheating.

Outputs on relay: 1 output on SPST 15(7)A 250V~ relay for compressor, 1 output on SPDT 8(3)A 250V~ for defrost system, 5 outputs on SPST 8(3)A 250V~ relay for evaporator fans, cell light, ON/OFF load button, alarm and auxiliary functions.

Serial connection: RS485 port for TelevisSystem (for EWTB 1000/S only).

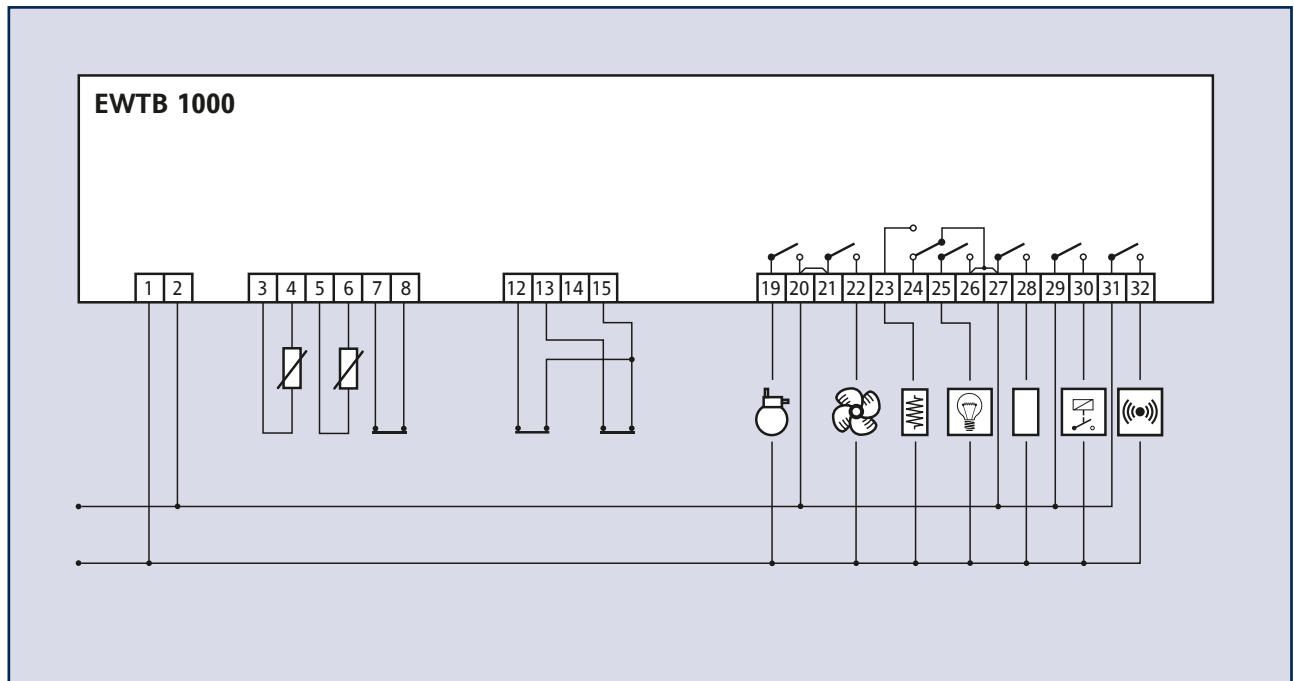
Resolution: 1°C.

Accuracy: above 0.5% of bottom scale + 1 digit.

Power supply (depending on model): 230, 115, 24 or 12 V~ ±10%, 50 or 60 Hz; 12 V= ±15% (EWTB 1000 only).



## Wiring Diagram



## Description of Wiring Diagram

1-2	Power supply	21-22	Fan relay output N.O.
3-4	Temperature PTC probe input	23-27	Defrosting relay output N.O.
5-6	Defrosting PTC probe input	24-27	Defrosting relay output N.C.
7-8	Digital input for micro-port	25-26	Lights relay output N.O.
12-15	Digital input for pressure switch	27-28	Auxiliary relay output N.O.
13-15	Digital input for preheating	29-30	Load shutdown relay output N.O.
19-20	Compressor relay output N.O.	31-32	Alarm relay output N.O.