

## Temperature display

LCD 2 lines of 16 characters (temperature , set point , output state)

Temperature input

Pt100 - 2 wires (-50 °C .....+ 250 °C)

# • Fully configurable

with pushbuttons

## • Breaking capacity 16 A resistive

### Mounting in IP66 waterproof enclosure

Transparent cover

The THL105 is a compact field mount thermostat for regulating heating cables and ribbons, allowing control of resistive load up to 3.5 Kilowatts. The digital regulation allows to combine precision and ease of use. Temperature and set point are displayed on a large LCD display.

### **DESCRIPTION:**

#### Temperature measurement:

- Rtd platinium sensor. PT100 in 2 wires mounting.
- Sensor correction:
- Linearization.
- Line compensation for long sensors cables (adjustable offset).

#### Front face:

- Wide temperature liquid crystal display, 2 lines of 16 characters (backlight),
- resolution of 1 °C from -50 °C to +250 °C.
- Sensor break or over range detection
- display "Err LO" if the sensor is short-circuited, display "Err HI" if the sensor is open / broken.
- Display of relay state,
- 3 push buttons on the front:
  - Direct access to the set point (up, down),
    - Advanced configuration (hysteresis, delay).

#### Relay:

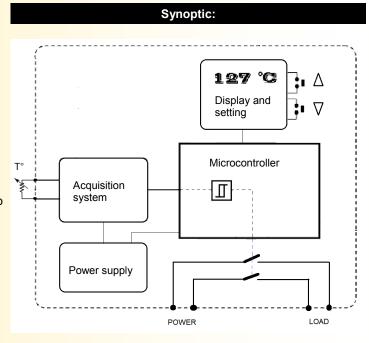
- output heating element switched on both lines (phase, neutral) to completely isolate the load,
- "hot mode" regulation with load powered for a measured temperature less than the adjusted threshold.

#### Features:

- Conformal coating,
- mounting in IP66 polycarbonate waterproof enclosure (THL105-ip), transparent cover,
- wiring:
  - temperature sensor connection by spring terminals
    max : 1 mm<sup>2</sup>
  - heating element connection on pluggable spring terminal block. max: 2.5 mm<sup>2</sup>
- input through cable gland.
- isolation : power / input / relay.
- firmware update is possible via serial link for special applications

#### **Characteristics:**

- Long-term stability better than 0.1 % / year.
- Operating temperature up to 75 °C.
- Excellent EMC performance.
- Resistant, protected against shock and vibration.



Version and order code:

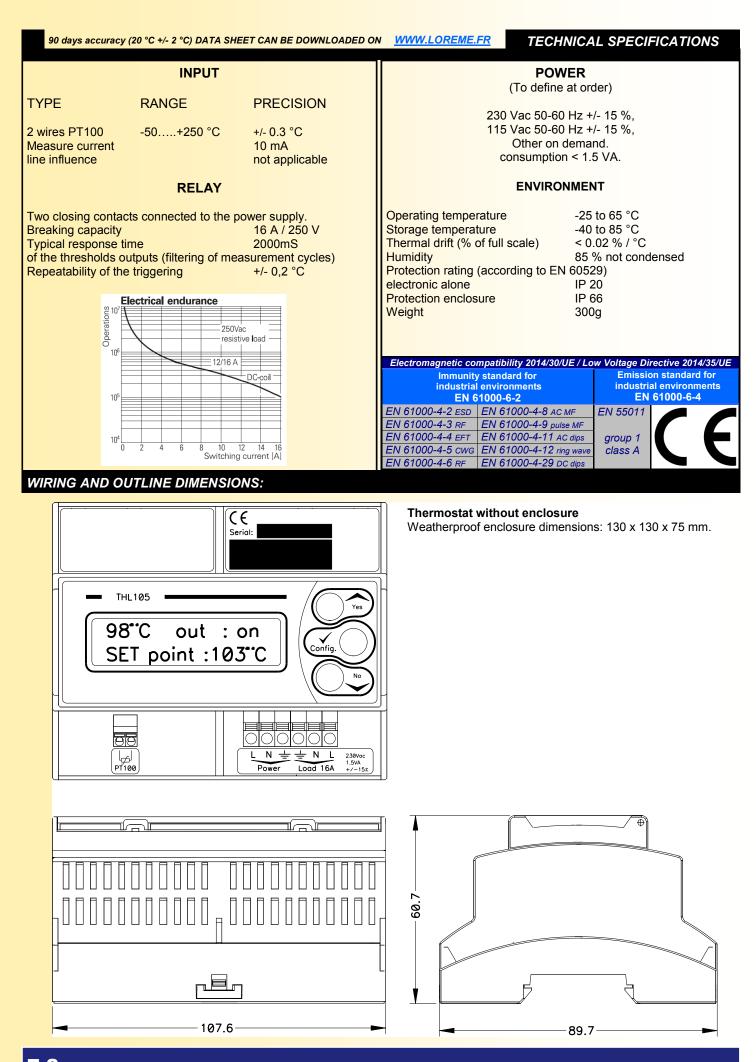
#### Request a quote 🔀

E 1

THL105: - Thermostat alone.

THL105-ip - Thermostat mounted in IP66 waterproof case.





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