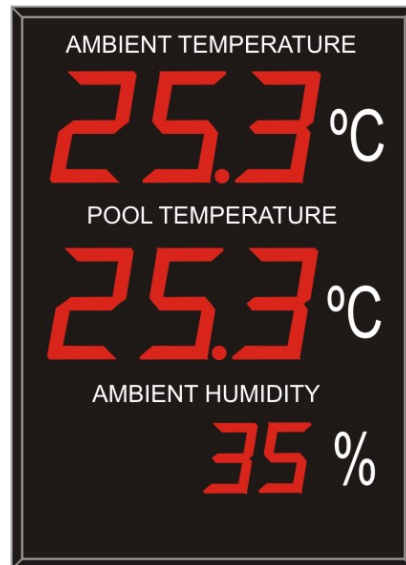


Features

- Digital indicator of indoor temperature, pool water and humidity in a single device.
- High brightness and luminosity characters
- It has internal probe and conduit probe for pool glass
- Can receive data through communication bus (optional): Modbus RTU RS485 or ModBus TCP
- Protection degree IP41 tropicalized and IP64
- Time programming on and off, with automatic summer-winter time change.
- Configurable sampling times.
- Configurable alarm relays.

Applications

- Outdoor and heated pools



Description

The DTHT is a digital indicator with segment displays that visualizes the interior temperature of the enclosure, the temperature of the pool water and the humidity, captured through analog inputs or through probes or transmitted through communication buses. There is a model with IP64 for outdoor environments with a temperature sensor built into the device itself.

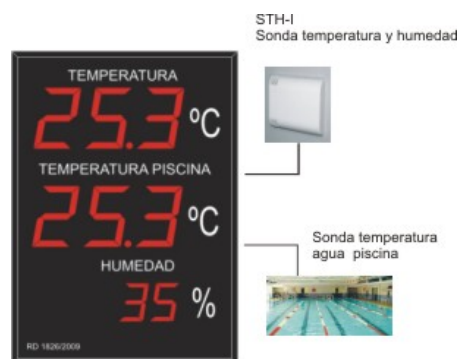
It has high-brightness segment displays, which allow you to view bright characters with a wide viewing angle. You can also set the screen on and off time automatically and the sampling intervals.

It complies with the specifications established in the new Royal Decree 1826/2009 of November 27 (RITE RD 1826/2009).

Models

There are different models of the DTHT indicator that are adjusted to each of the installation needs:

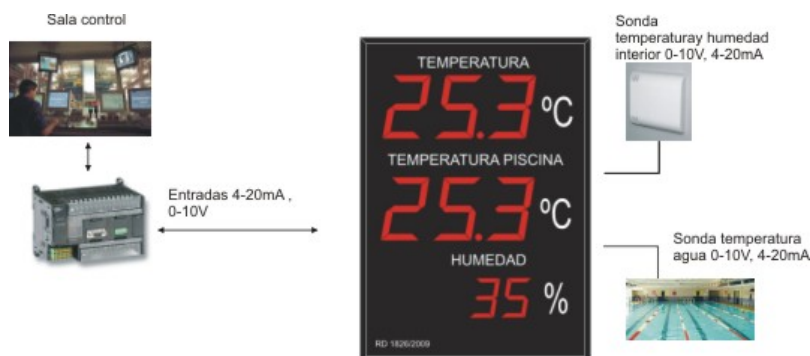
DTHT-I has an external probe to facilitate readings of the temperature and humidity inside the pool enclosure (internal probe included with 5m cable) and another to measure the water temperature (see specifications). Includes power cord.



DTHT -C has an external probe to facilitate readings of the temperature and humidity inside the pool enclosure (internal probe included with 5m cable) and another to measure the water temperature (see specifications). It can transmit the temperature information through a communication bus Modbus RTU RS485 (-C), Modbus TCP (-TCP), or receive data to be written on the screen without the need for probes. Includes power cord.



DTHT -EA allows connecting two external analog inputs for indoor temperature, indoor and outdoor humidity. Includes power cord.



Technical specifications

Parameters

Power supply	240 -110Vac , 50/60 Hz with 1A fuse	
Temperature measure	DTHT -I / -C /-EA	
	Range	-20°C a 50°
	Precision	+/- 0.5°C
	Resolution	0.1°C
	Nº inputs	2
	Input 1	NTC temperature probe with STH-I or STH-ES (I, C) probe, configurable analog input 0-10V, 2-10V, 0-5V, 4-20mA (EA). (In IP option the probe is fixed on the side of the device)
	Input 2	-NTC temperature probe for conduit (I, C) (option M8, ½" or sheath with 2m cable), configurable analog input 0-10V, 2-10V, 0-5V, 4-20mA (EA)
Humidity measure	DTHT -I / -C /-EA	
	Range	0% a 99% HR
	Precision	+/- 3.5 % HR
	Resolution	1% HR
	Nº inputs	1
	Input	Hygrometer (I), configurable analog input in voltage (EA-V) 0-10V, 2-10V, 0-5V or in current 4-20mA (EA-420)
Segments display	Vision angle	180 °
	Luminosity	> 35 mcd per segment
	Character dimensions	101 x 60 mm, 60 x 42 mm
Communications Bus	DTHT-C	ModBus RTU RS485 (Half Duplex)
	Slave	Configurable 0 to 63 (2 by default)
	Speed	Configurable 300 ,600,1200,2400,4800,9600 y 19200 bauds
	Parity	Configurable N,P,I (N by default)
	Funtions	1 to 17
Communications Bus	DTHT-C-TCP	ModBus TCP (RJ45)
	IP	Configurable 0-0-0-0 to 255-255-255-255
	Speed	10M Max.
	Functions	1, 3,5,6,15,16
Housing material	Black painted Iron sheet	
Working temperature	-10°C - 50°C	
Working humidity	10% to 80% HR without condensation	
Storage temperature	- 20°C, +45 °C	
Storage humidity	5% to 95% HR without condensation	
Protection degree	IP41 or IP65(-IP option)	
Soporte	Tethering wall via screws	
Programmable on-off time	Via pushbutton	
Sample time	Via pushbutton	

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Option -R

Two relays that are activated according to the T1 and T2 set points set in the configuration menu. Relays with one NO contact and 250mA.

Option -TR

Application of an anti-humidity treatment (tropicalized) to the electronic boards that allows their operation in environments with a high degree of humidity such as swimming pools.

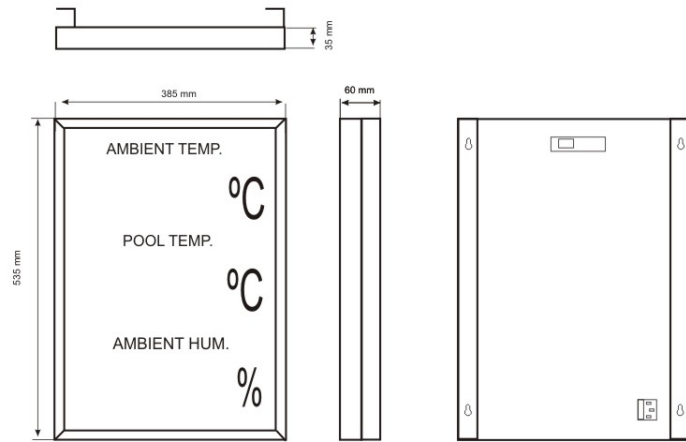
Option -L

Customizable logo on the front of the equipment

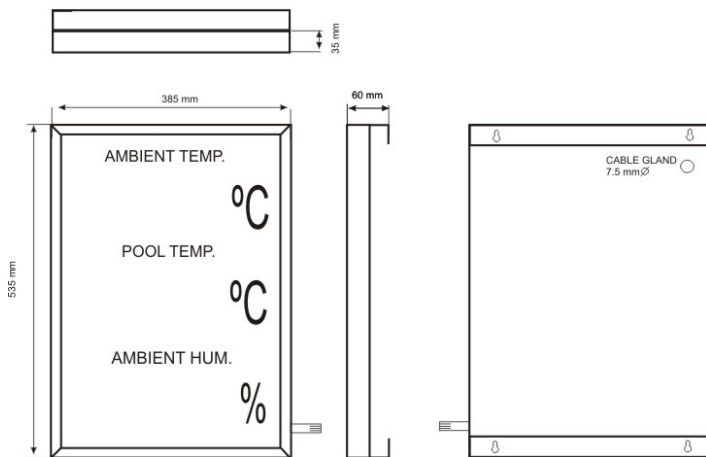
Option -N

Without RITE logos RD 1826/2009 / RD742-2013

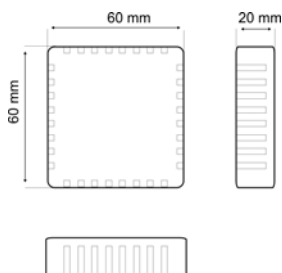
Dimensions



-IP option



Dimensions STH-I



Weight

5.0 Kg

A.S.P. Electronic

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