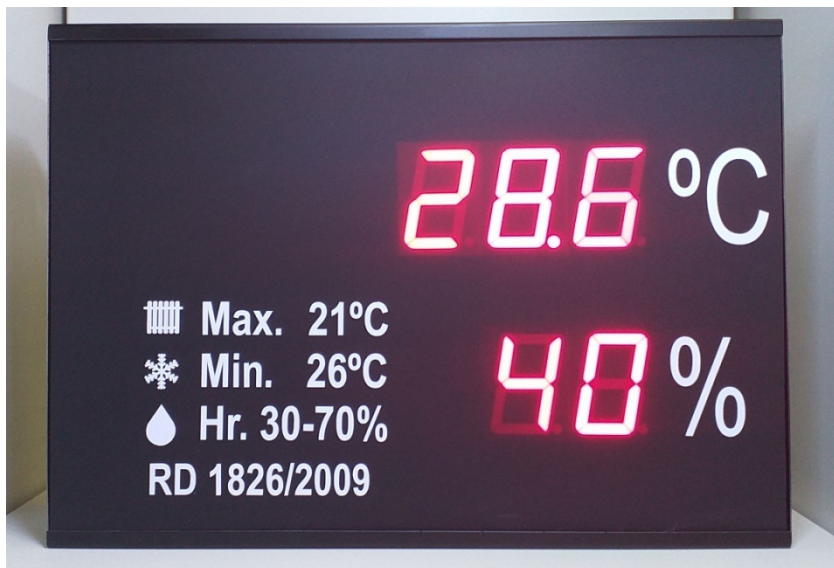# A.S.P. Electronic

Features

• Digital display of temperature and humidity in a single device.

• Smaller size than the DTH model.

• High brightness and luminosity characters

• It has an external temperature and humidity probe

• Can receive data through communication bus (optional): Modbus RTU RS485 or ModBus TCP

• Complies with Royal Decree 1826/2009 (RITE RD 1826/2009).

• IP41 degree of protection for commercial environments.

• Programming time on and off, with automatic summer-winter time change.

• Configurable sampling times.

Applications

• Supermarkets and department stores.
• Industrial ships.
• Angares aviation.
• Sports facilities.
• Auditoriums and exhibition halls.
• Stations and airports.
• Data processing centers

Description

The MTH is a digital indicator with segment displays that visualizes the temperature and relative humidity, captured through analog inputs or through temperature and humidity probes, or transmitted through one of its multiple optional communication buses. Its size is smaller than the DTH model (420 x 300 mm vs 520 x 370 mm) for projects that require a more discreet and simple visualization.

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

It has high-brightness segment displays, which allow the visualization of bright characters with a wide viewing angle. You can also set the screen on and off time automatically and the sampling intervals.
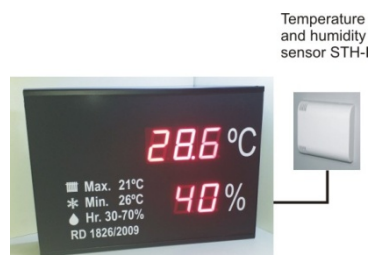
The logo on the front is customizable according to the customer's request.
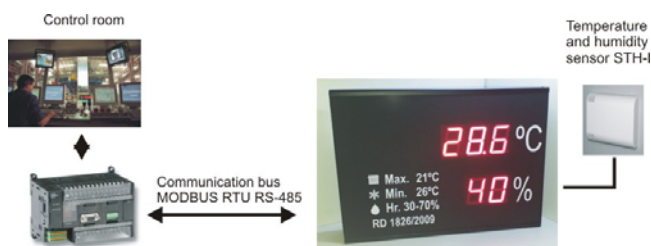
RITE RD 1826/2009 logo could be removed

Models

There are different models of the DTH indicator that are adjusted to each of the installation needs:
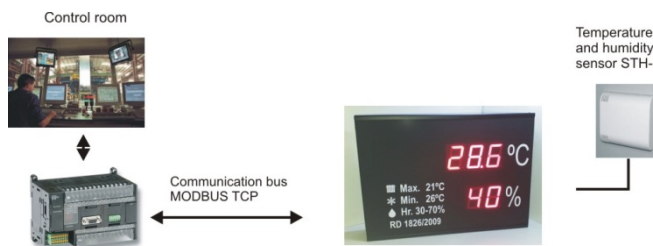
MTH-I has an external probe to facilitate local temperature and humidity readings (probe included with 5m cable). Includes power cord.

MTH-C has an external probe to facilitate local temperature and humidity readings (probe included with 5m cable) and can transmit temperature and humidity information through a Modbus RTU RS485 communication bus, as well as display the parameters of temperature and humidity that you want to write.
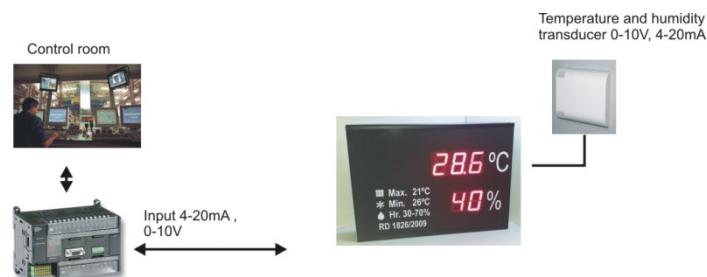Includes power cable.

A.S.P. Electronic

MTH-C-TCP has an external probe to facilitate local temperature and humidity readings (probe included with 5m cable) and can transmit temperature and humidity information through a Modbus TCP communications bus, as well as display parameters temperature and humidity that you want to write. Includes power cord.
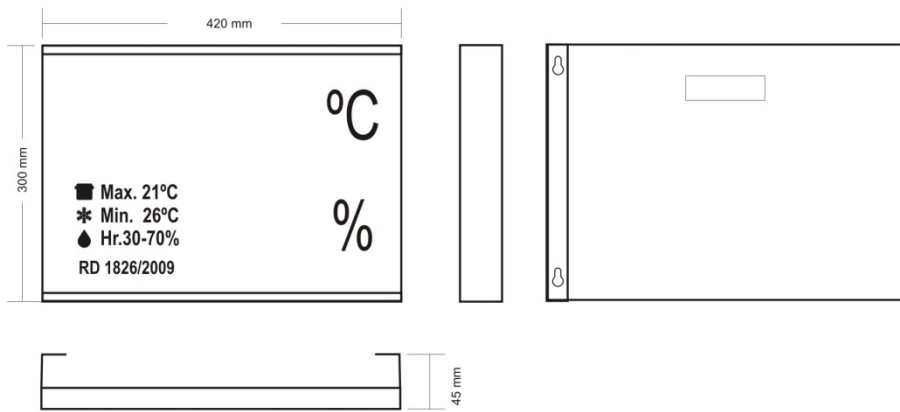
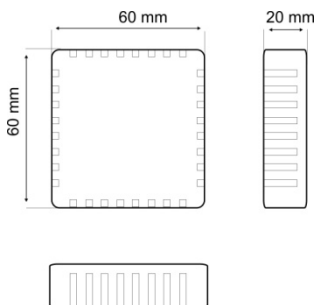**MTH-EA** allows to connect two external analog inputs for temperature and humidity. Includes power cord.

Technical specifications		
Parameter		
Power supply		12Vdc +/- 10% , external power supply charger included
Temperature measure		**MTH-I / -C /-EA**
	Range	-20ºC to 50º
	Precision	+/- 0.35ºC
	Resolution	0.1ºC
	Nº inputs	1
	Input	Temperature probe (I), configurable analog input in voltage (EA-V) 0-10V, 2-10V, 0-5V or in current 4-20mA (EA-420)
Humidity measure		**MTH-I / -C /-EA**
	Range	0% to 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)
Segment display		
	Vision angle	180 º
	Luminosity	> 35 mcd per segment
	Character dimensions	60 x 42 mm
Communications Bus	**MTH-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	**MTH-C-TCP**	ModBus TCP .RJ45 connector CAT5,5e o 6.
	IP	Configurable 0-0-0-0 a 255-255-255-255
	Speed	10M Max.
	Funtions	1, 3,5,6,15,16
Housing material		Black painted Iron sheet
Working temperature		-10ºC - 50ºC
Working humidity		10% to 80% HR without condensation
Storage temperature		- 20ºC, +45 ºC
Storage humidity		5% to 95% HR without condensation
Protection degree		IP41
Soporte		Tethering wall via screws
Programmable on-off time		Via pushbutton
Sample time		Via pushbutton
Adittional options		
Option -R		Two relays that are activated according to the T and H 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
Dimensions		

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°C

☎ Max. 21ºC
❄ Min. 26ºC
💧 Hr.30-70%
RD 1826/2009

%

420 mm

300 mm

45 mm

Dimensions STH-I

60 mm

20 mm

60 mm

Weight

5.0 Kg