



## T-RH-P LOGGER

AMBIENT TEMPERATURE , RELATIVE HUMIDITY &  
BAROMETRIC PRESSURE INDICATOR , TRANSMITTER & LOGGER



### MAIN FEATURES

- *Single Transmitter to measure , Indicate Ambient Temperature , Relative Humidity and Barometric Pressure.*
- *Time Based Data Logger for the three Input parameters*
- *Ambient Temperature Range is 0-50 deg. C (typical).*
- *RH range 20-100% (typical).*
- *Barometric Pressure Range is 300 – 1100 mBarA.*
- *0 – 5VDC , Output signal (typical) for each one of the three parameters. Could be changed to 0-10VDC if specified.*
- *Fully calibrated.*

***NOTE : IN ORDER NOT TO CORRUPT THE RECORDED FILE , YOU HAVE TO DISCONNECT POWER WHEN INSERTING OR REMOVING THE SD CARD***

### DESCRIPTION

T-RH-P LOGGER is an advanced data logger and transmitter strictly calibrated in the laboratory. The calibration coefficients are stored in the transmitter's microcontroller memory, which are used by the sensor's internal signal detecting process. The 0-5VDC output signal (typical) for each one of the three parameters makes system integration quick and easy (Could be changed to 0-10VDC if specified) .

The T-RH-P LOGGER is a time stamped logger for the three parameters with a sampling interval of 1 second.

Using the dedicated software "free download from our site" you can monitor , zoom or Report any parameter or set of parameters for any recorded time.

Its small size, low power consumption and up-to-20 meter signal transmission making it the best choice for various applications, including those most demanding ones. It is convenient to connect and special packages can be provided according to users' request.

Barometric Pressure measurement is based on piezo-resistive technology for EMC robustness, high accuracy and linearity as well as long term stability.

**TECHNICAL DATA****Ranges**

Temperature	0-50 deg. C.
Relative Humidity	0-100 %
Pressure	300 ... 1100 mBarA

**Accuracy**

Temperature	+ - 1 deg. C.
Relative Humidity	+ - 2 %
Pressure	+ - 3 mBarA

**Input Power**

12 VDC .

**Output signal**

Signal span 0 – 5VDC , for each of the 3 signals

**Characteristic**

Linear

**Isolation voltage**

500 Vac

**Operating temp.**

-40-70°C

**Storage temp.**

-40-70°C

**Response time**

≤3ms(10% to 90%F.S.)

**Logging sampling interval**

1 second

## ELECTRICAL CONNECTIONS

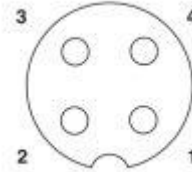
### Power Connection

12 VDC fixed

### OUTPUT Connection

M12 Connector

- PIN 1 – Humidity 0-5VDC output signal
- PIN 2 – Barometric Pressure 0-5VDC output signal
- PIN 3 – Ground
- PIN 4 – Ambient Temperature 0-5VDC output signal

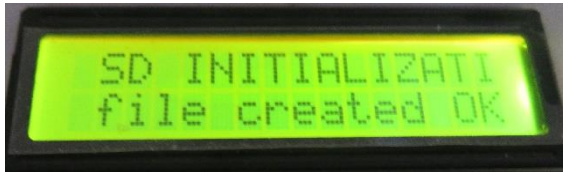


## DIMENSIONS



## OPERATION DESCRIPTION

- 1- With Power OFF Insert the Micro SD CARD in the T-RH-P Logger.
- 2- Connect the T-RH-P Logger to the 12VDC power adaptor.
- 3- SD Initialization shall take place. And the following screen shall be indicate



- 4- After initialization , T-RH-P Logger shall show the current Time and Date.



- 5- If timing needs adjustment Please follow the timing adjustment procedure . Normally this is done once .
- 6- After a couple of seconds. The Indicator will show the value of the 3 parameters *Ambient Temperature , Relative Humidity and Barometric Pressure.*



- 7- On the second line last character a semicolon is shown blinking . it indicates that the SD card is recording .



**TIME ADJUSTMENT**

Open the back cover . On the main Board there is two Push Buttons

**Buttons:**

- "Λ+V"                    *Press both to enter setting mode or to SAVE*
- "V"                         *Decrease the value*
- "Λ"                         *Increase the value*

**Enter Password**

- Press "Λ+V" , display shows "1230".
- Press "Λ" to change password to "1234"
- Press "Λ+V" together to enter YEAR Adjustment.

**Setting**

- Display shows "YEAR". Press "Λ" to increase year or "V" to decrease.
- Press "Λ+V" together to enter MONTH Adjustment.
- Display shows "MONTH". Press "Λ" to increase MONTH or "V" to decrease.
- Press "Λ+V" together to enter DAY Adjustment.
- Display shows "DAY". Press "Λ" to increase Day or "V" to decrease.
- Press "Λ+V" together to enter HOUR Adjustment.
- Display shows "HOUR". Press "Λ" to increase Hour or "V" to decrease.
- Press "Λ+V" together to enter Minute Adjustment.
- Display shows "Minute". Press "Λ" to increase Minutes or "V" to decrease.
- Press "Λ+V" together to EXIT and the programing is done.

### HOW TO ORDER

#### T-RH-P LOGGER – AA – BB – CC – DD – EE – OPTIONS

AA – TEMPERATURE RANGE , PLEASE WRITE DIRECTLY

0 – 50 OC (TYPICAL)

BB – RH RANGE , PLEASE WRITE DIRECTLY

0% – 100% (TYPICAL)

CC – PRESSURE RANGE , PLEASE WRITE DIRECTLY

300 – 1100 MBARA (TYPICAL)

DD – OUTPUT VOLTAGE

0 – 5 VDC (TYPICAL)

0 – 10 VDC

OTHERS (PLEASE SPECIFY)

EE – SUPPLY VOLTAGE

15 VDC (TYPICAL)