

# Net Environmental Parameters Kits

**Net Environmental Parameters Kits** are some Kits for the monitoring of environmental parameters such as temperature, humidity and luminosity via web pages and / or Energy Brain Configurator software. The kits are available in two versions:

- **E-Wi**, that is, with data communication between sensors (Deca Sensor E-Wi) and head of the system (Yocto net Web Coordinator E-Wi) via radio (wireless network E-Wi);
- **RS485**, that is, with data communication between sensors (Deca Sensor RS485) and head of the system (Yocto net Web) via RS485 cable.

The **E-Wi** Kit includes:

- a Yocto net Coordinator Web E-Wi 2DI 2DO with power supplier,
- a Deca Sensor E-Wi THL 4DI TE Bus with 3,6V lithium battery,
- a Deca Sensor External TE 1,
- a Deca Sensor Bus Unit Box L,
- a copy of Energy Brain Configuration software

The **RS485** Kit includes:

- a Yocto net Web 2DI 2DO with power supplier,
- a Deca Sensor RS485 THL 4DI TE Bus with 5V power supplier,
- a Deca Sensor External TE 1,
- a Deca Sensor Bus Unit Box L,
- a copy of Energy Brain Configuration software

**ENVIRONMENTAL PARAMETERS KIT  
RS485 THL TE1**



**ENVIRONMENTAL PARAMETERS KIT  
E-Wi THL TE1**



## Main characteristics / functions of Yocto net

Modbus-TCP server (up to 4 simultaneous connections) acting as bridge between the Ethernet (Modbus-TCP) and RS485 (Modbus-RTU) networks.

WEB server for the configuration of the Yocto net via WEB Browser for displaying web pages with measures from Deca Sensors.

FTP server for the firmware upgrade.

Role of arbiter between the Ethernet port and RS232 port (Modbus-RTU protocol with the possibility of an additional connection to a PC, PLC or Yocto gate) to the RS485 (Modbus-RTU).

Detection of an On / Off state through the 2 optically isolated digital inputs.

Alarms and activation / deactivation tasks via the 2 opto-isolated digital outputs.

Expandable with other functions can be activated with PUK code.

For more details see the datasheets of Yocto net and Yocto net E-Wi.

## Main characteristics / functions of Deca Sensor

The Deca Sensor Wi and E-485 multifunction sensors have been designed to work in both inside and outside (if appropriately protected) environments.

The multifunction sensors inserted in the kit are the THL 4DI TE Bus:

- THL indicates that the Deca Sensor contains sensors for measuring temperature, humidity and luminosity;
- 4 Digital Inputs (4DI) can be used for counting of pulses e.g. from electrical energy, gas, water, etc.;
- 1 Input for a TE external temperature probe, for example the temperature of contact in the photovoltaic panels, or for a 0 - 5Vdc probe, for example the solarimeter E-Solar Sensor;
- 1 bus to connect up to 4 sensors chosen from among: up to 4 for temperature, 1 for humidity, 1 for brightness and 1 for air pressure.

For more details, see the datasheet of the Deca Sensor.

## Order codes

Type	Code
Net Environmental Param. Kit E-Wi THL TE1.....	PKA0011-00
Net Environmental Param. Kit RS485 THL TE1.....	PKA0010-00

Subject to modification without prior notice. Datasheet Net Environmental Kit 2011 07 22-ENG

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