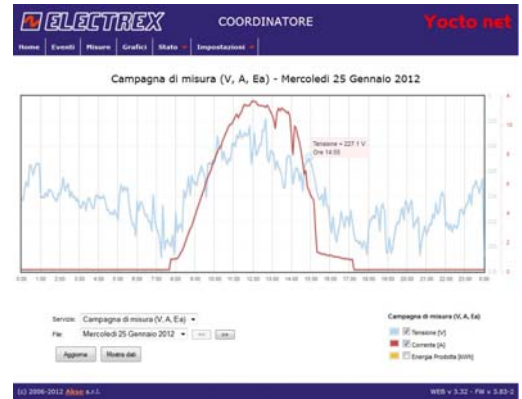


# Yocto net Upgrade 4You

## Yocto net Upgrade



**Yocto net Upgrade 4You:** software implementation, activated by PUK entry on the Yocto net's configuration page. It adds the possibility to modify an existing logging service on a Yocto net Log, through a configurator, which displays also info on the memory usage of the relevant data. The implementation allows, for example, performing a load profile survey on electric parameters (voltage, current, power factor, etc.) and/or increase/decrease the sampling frequency and the logging period. While through the **Yocto net Upgrade Charts implementation** it is possible to display on-line the daily charts of the customized logging service.

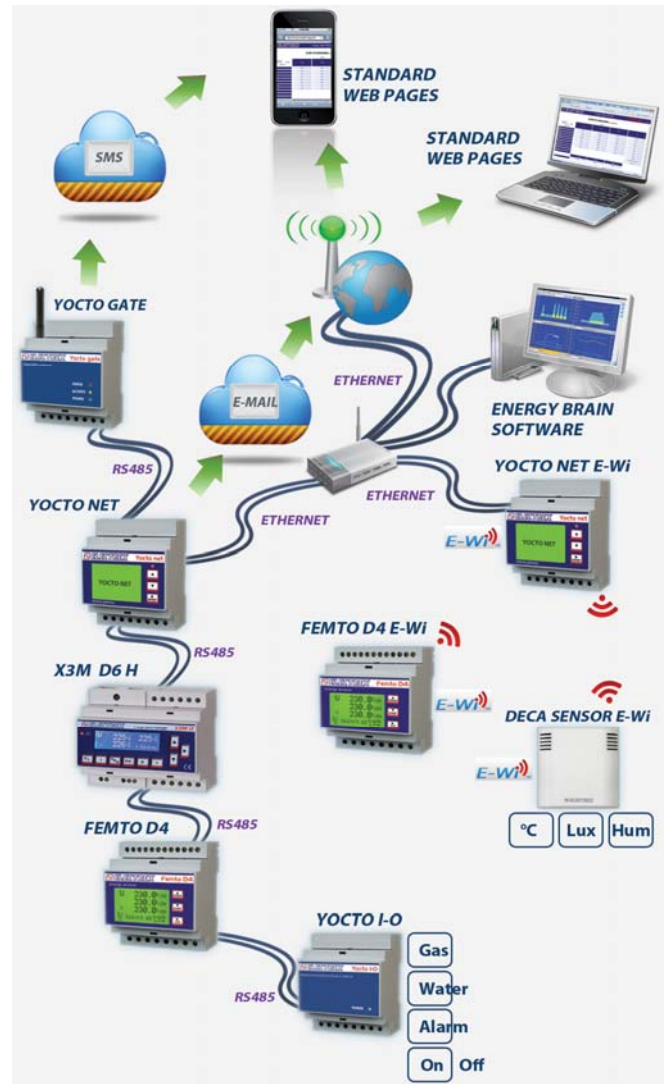
### Yocto net Network Example

In the network here beside a first Yocto net is connected through the RS485 port to various devices: an X3M H D6, a Femto D4, an Yocto I-O (retrieving data from a gas meter, a water meter, managing a process alarm and commands an output state) and an Yocto gate. Another Yocto net Coordinator E-Wi is connected through radio waves (wireless) to a Femto D4 E-Wi and a Deca Sensor E-Wi, which measures temperature, luminosity and environmental humidity. A PC is used for retrieving and managing the data through the Energy Brain software. The PC can be located anywhere: in the company facilities or at the headquarters of an outside consultant.

All the network is managed and monitored directly from the Yocto net. This means that it is not needed a second PC where the devices are installed, so you avoid also additional energy consumption, problems related to the PC functioning causing the loss of data, etc.

Further software implementations which can be installed in the Yocto net are the following:

- **Yocto net Upgrade Web:** enables HTML WEB pages displaying real-time measurements on-line, from any of the instruments connected to the Yocto net.
- **Yocto net Upgrade Web Open:** it adds the possibility to customize the real-time measurements WEB pages.
- **Yocto net Upgrade Mail Alarm:** it adds the possibility to send e-mails and/or SMS (in this case the Yocto net should be connected to an Yocto Gate) to several recipients if a previously set event occurs.
- **Yocto net Upgrade Calendar:** it adds the possibility to manage functionalities of Energy Automation as turning on/off, alarms/alerts/notifications and automations based on a yearly calendar configurable also on a minute/hour/day/month basis.
- **Yocto net Upgrade Charts:** it adds the possibility to display on a WEB page the daily charts of electric energy, temperature, humidity, luminosity, etc.



More info on the **Yocto net** device can be found on our web site <http://www.electrex.it/en>.

**Chart configuration example**

Here below it is shown the configuration page for a load profile survey on voltage, current, energy with a sampling period of 5 minutes and an example of a daily chart.

The screenshot shows the 'Configurazione datalogger' section with the following settings:

- Servizio: Datalogger 5 - Campagna di misura (V, A, Ea)
- Nome del servizio: Campagna di misura (V, A, Ea)
- Intervallo di campionamento: 5 min
- Numero massimo di files sul disco: 10
- Eventi da memorizzare:  Accensione/spegnimento,  Modifiche all'orologio di sistema,  Modifiche alla configurazione del datalogger
- Allineamento dei campioni:  Alla mezzanotte

The 'Registri memorizzati' section shows a table of saved records:

| Campionamento | Canale  | Registri                       |
|---------------|---|--------------------------------|
| Periodico     | Fenito 33 Generale Produzione Fotovoltaico Out Inverter | Tensione U1N                   |
| Periodico     | Fenito 33 Generale Produzione Fotovoltaico Out Inverter | Corrente I1                    |
| Periodico     | Fenito 33 Generale Produzione Fotovoltaico Out Inverter | Ea importata totale/T1 (64bit) |

Additional info: Dimensione configurazione: 40 bytes, Dimensione file dati: 8 710 bytes, Spazio richiesto su disco: 87 140 bytes.

The 'Grafico' section shows the following active curves:

| Nome curva / Asse Y                               | Canale / Registro   | Memorizzazione attiva               |
|---|---|-------------------------------------|
| Tensione<br>Asse #2: DX, V, [auto,auto]           | Fenito 33 Generale Produzione Fotovoltaico Out Inverter<br>Tensione U1N                   | <input checked="" type="checkbox"/> |
| Corrente<br>Asse #3: DX, A, [auto,auto]           | Fenito 33 Generale Produzione Fotovoltaico Out Inverter<br>Corrente I1                    | <input checked="" type="checkbox"/> |
| Energia Prodotta<br>Asse #1: DX, kWh, [auto,auto] | Fenito 33 Generale Produzione Fotovoltaico Out Inverter<br>Ea importata totale/T1 (64bit) | <input checked="" type="checkbox"/> |

The second screenshot shows the 'Grafico' view for 'Campagna di misura (V, A, Ea) - Mercoledì 25 Gennaio 2012'. It displays a line chart with three series: Tensione [V] (blue), Corrente [A] (red), and Energia Prodotta [kWh] (yellow). A callout box indicates 'Tensione = 227.1 V Ore 14:55'. The x-axis represents time from 0:00 to 0:00, and the y-axis represents values from 0 to 10.

At the bottom, there are controls for the service ('Campagna di misura (V, A, Ea)'), file ('Mercoledì 25 Gennaio 2012'), and buttons for 'Aggiorna' and 'Mostra dati'. A legend on the right shows the color coding for the data series.

**Order code**

| Type                         | Code       |
|------------------------------|------------|
| Yocto net upgrade 4You (PUK) | PFSW940-25 |

Subject to modification without prior notice  
Data sheet Yocto net upgrade 4You 2012 02 02-ENG

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