



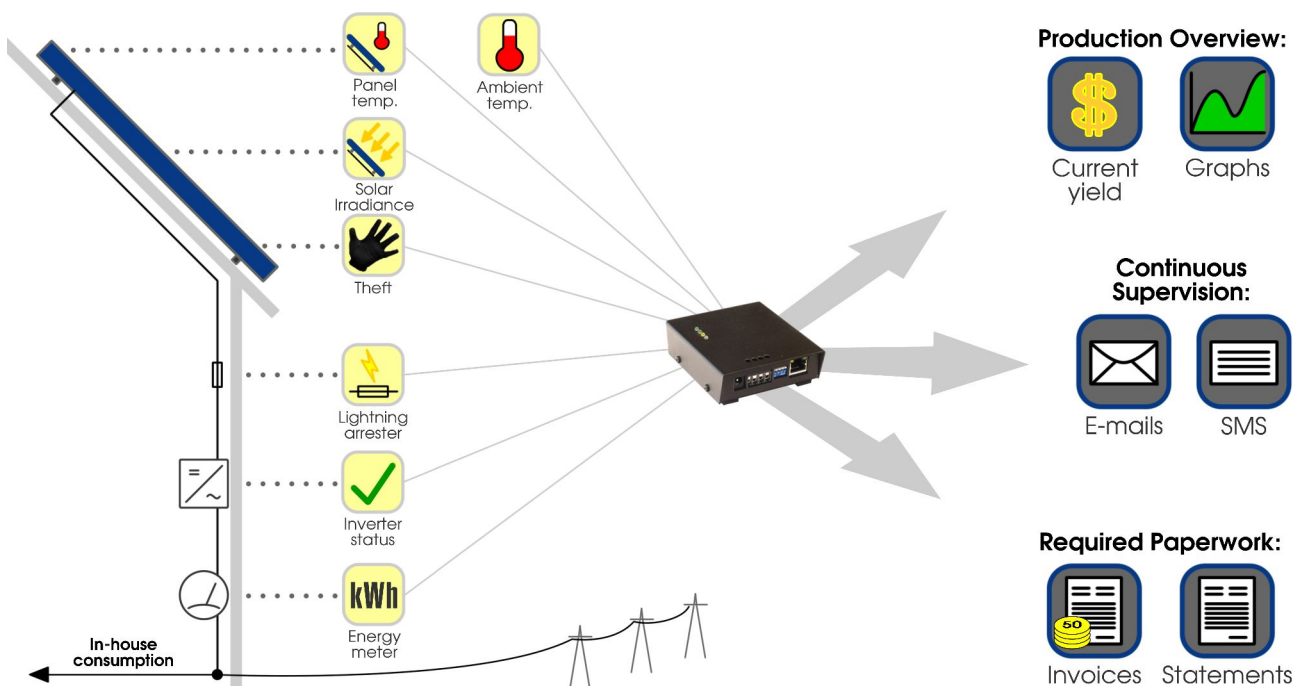
Embedded Technologies \ Metrology:

Solar Monitor

Precise supervision for your photovoltaic plant

Solar Monitor

- is an innovative solar plant monitoring solution
- displays current production data and **continuously protects your plant** against theft or unexpected outage
- promptly informs you about problems thereby **prevents yield loss**
- offers **intuitive web interface** - you only need a web browser to have your photovoltaic plant fully controlled
- **supports several languages** and offers context help to ease setup
- covers also Czech market special needs - it supports automatic invoicing and energy statement issuing to **maximally simplify the tricky grant regulations**



Key Features:

- **Production Overview:**
Current data always available.
- **Event Notification:**
Immediate info about status change and other events.
- **Trend Analysis:**
Data can be sent to Solar Portal web application for further processing.
- **Theft Protection:**
Do not tremble for your investment.
- **Continuous Inverter Monitoring:**
Inverter is a most important part of your plant hence is monitored 24h / day.
- **Meteo Sensors:**
Temperatures, solar radiation intensity and energy output are shown in interactive graphs. Anemometer is also supported.
- **Integrated Invoicing:**
Do not loose your time with paperwork!

Web Interface:

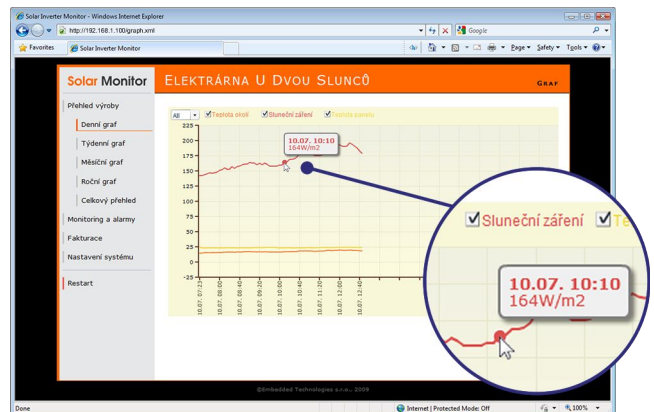
- Completely localized
- Intuitive and user friendly
- Contains context help
- The user does not need to have energetic and accounting background
- Computer platform and operating system independent – only a web browser is required
- Easily customizable plant name
- M2M connectivity



Intuitive interface in a web browser

Production Overview:

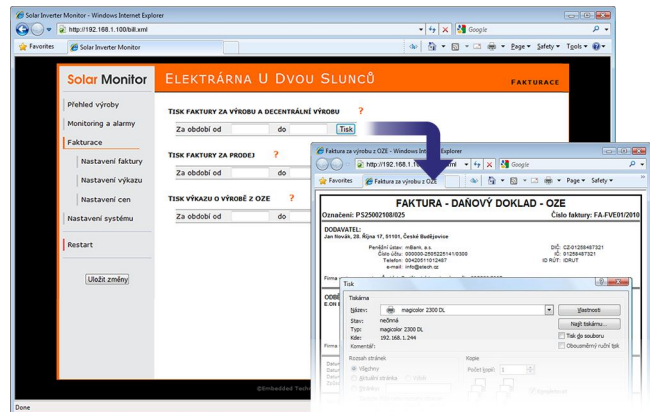
- Tidy graphs show production data
- Peak value table (panel, ambient and inverter temp., solar radiation, dc and ac voltage, current and power, grid frequency)
- Saved CO₂ emissions
- Windows Gadget displays production data directly on your desktop (for Windows XP, Vista, 7)



Interactive graph

Billing Features:

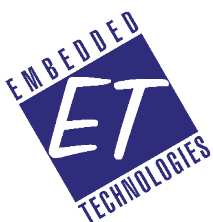
- Designed for Czech market
- Billing data has to be set only once
- Generates invoice for "green bonus" (state-aided price per kWh)
- Generates invoice for energy sold to your customer
- Generates energy statement (for Bureau of Energy Regulation)
- Supports both production modes ("green bonus" or "forced buyout")



Billing: automatic invoice creation and print

Technical Parameters:

- Dimensions: 86 x 33 x 90mm
- Power supply: 12V DC
- Optional DIN-rail or wall mounting kits



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The company is focused on embedded systems development since 1996. Our know-how is in communication protocols, especially networking ones. We also develop management and configuration tools. We are able to advice most suitable real time solution, design your device hardware and integrate it into your application. For further information, please see www.etch.cz