

SOLAR ELECTRIC

KOSTAL

PIKO inverter – Communication at its best



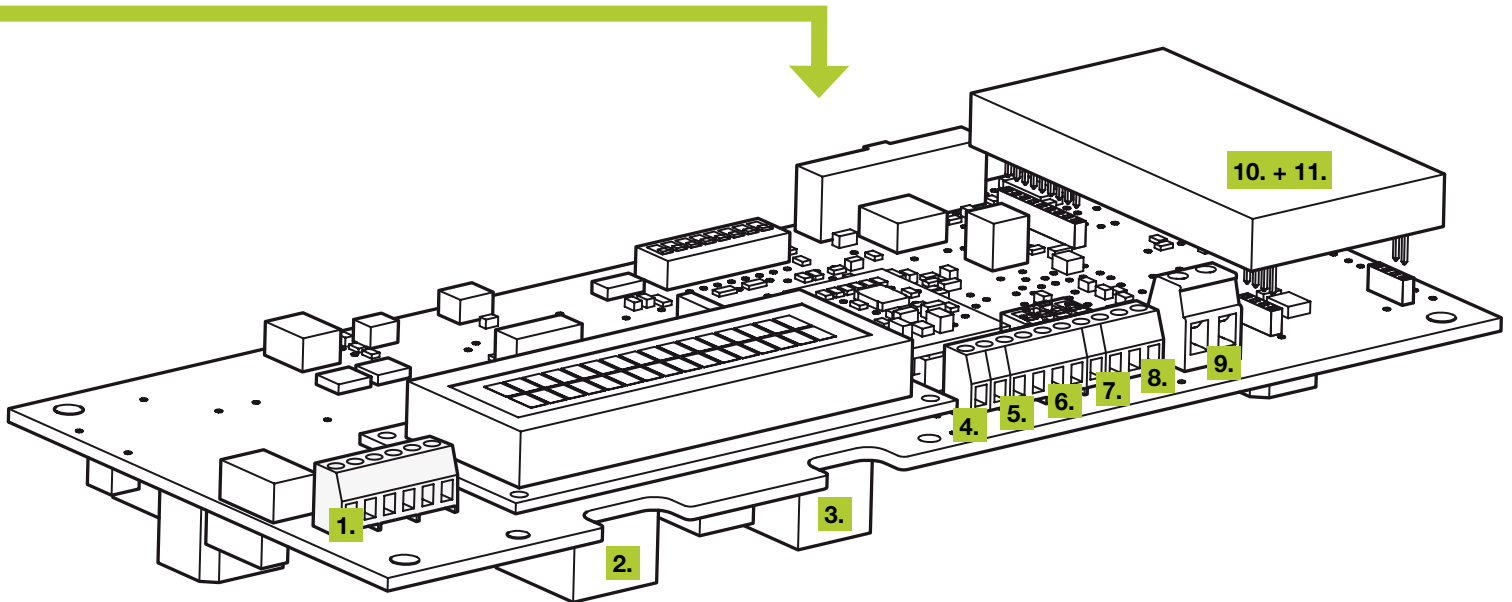
Smart
connections.

PIKO inverter – Good at communicating

The PIKO inverter is the heart of your photovoltaic system. The PIKO from KOSTAL is more than a simple inverter. Every PIKO inverter is equipped as standard with a versatile communications system: from datalogging to the provision and monitoring of all the key data via the integrated interfaces through to additional communication features that combine to make your PIKO unique. It is possible to monitor the PV system either by local or by remote enquiry. Web server, PIKO Master Control and the PIKO Solar Portal are all available for this purpose.



Interfaces and communication methods



1. Terminal as alternative to plugs 2 a. 3	<ul style="list-style-type: none"> ■ Analogue telephone connection ■ Ethernet connection
2. RJ45 socket	<ul style="list-style-type: none"> ■ LAN network ■ Direct PC connection
3. RJ11 socket	<ul style="list-style-type: none"> ■ Connection to the telephone socket (analogue modem)
4. 5 V output	<ul style="list-style-type: none"> ■ Voltage supply for external sensors
5. Ground	<ul style="list-style-type: none"> ■ for 4. + 6. + 7.
6. 4 x analogue inputs (0–10 V)	<ul style="list-style-type: none"> ■ Sensors ■ Ripple control receiver for controlling power reduction (medium-voltage regulations)
7. Impulse input	<ul style="list-style-type: none"> ■ Connection for an energy metre, data are registered in log database
8. RS485 provision of instantaneous values	<ul style="list-style-type: none"> ■ Quick and easy to install ■ Connection for displays ■ Connection for data loggers
9. Configurable switch output	<ul style="list-style-type: none"> ■ S0 impulse output for connecting displays or external data loggers ■ Alarm contact ■ Control of internal consumption
10. Analogue modem for remote retrieval*	<ul style="list-style-type: none"> ■ Enables remote dialling into the PIKO inverter for the purpose of monitoring or service ■ Data transfer to a solar portal ■ Requires an additional separate telephone connection
11. GSM modem for remote retrieval*	<ul style="list-style-type: none"> ■ Enables remote dialling into the PIKO inverter for the purpose of monitoring or service ■ Data transfer to a solar portal ■ Requires a SIM card with data tariff

*Available as an option.

PIKO inverter – reliable monitoring



Integrated web server: fast and direct monitoring

All settings relating to data communication are made on the integrated web server. The web server also allows the operating data of the PIKO inverter to be displayed. The following are the most important functions:

- Display of the current performance data and overall energy
- Inverter configuration (e.g. portal access, IP address, GSM PIN, internal consumption*, active power control*)
- Information page for checking sensors and modems
- Download of historical log data

PIKO Master Control: monitoring made easy

PIKO Master Control makes it easy to prepare the revenues and operating data of the PIKO inverter. This software can be downloaded free on the KOSTAL Solar Electric website and performs the following functions:

- Graphic display of the current and historical data
- On site and remote monitoring
- Data export

PIKO Solar Portal: convenient and reliable monitoring

The PIKO Solar Portal allows you to monitor the operation of your PIKO inverter and call up performance data. You can register with the PIKO Solar Portal for free on the KOSTAL Solar Electric website. The functions are:

- Graphic display of the performance data
- Worldwide access to the portal via the internet
- E-mail notifications in case of malfunctions
- Data export (e.g. as an Excel file)

The web server, PIKO Master Control and PIKO Solar Portal are also suitable for use with photovoltaic systems containing multiple inverters and are multilingual.

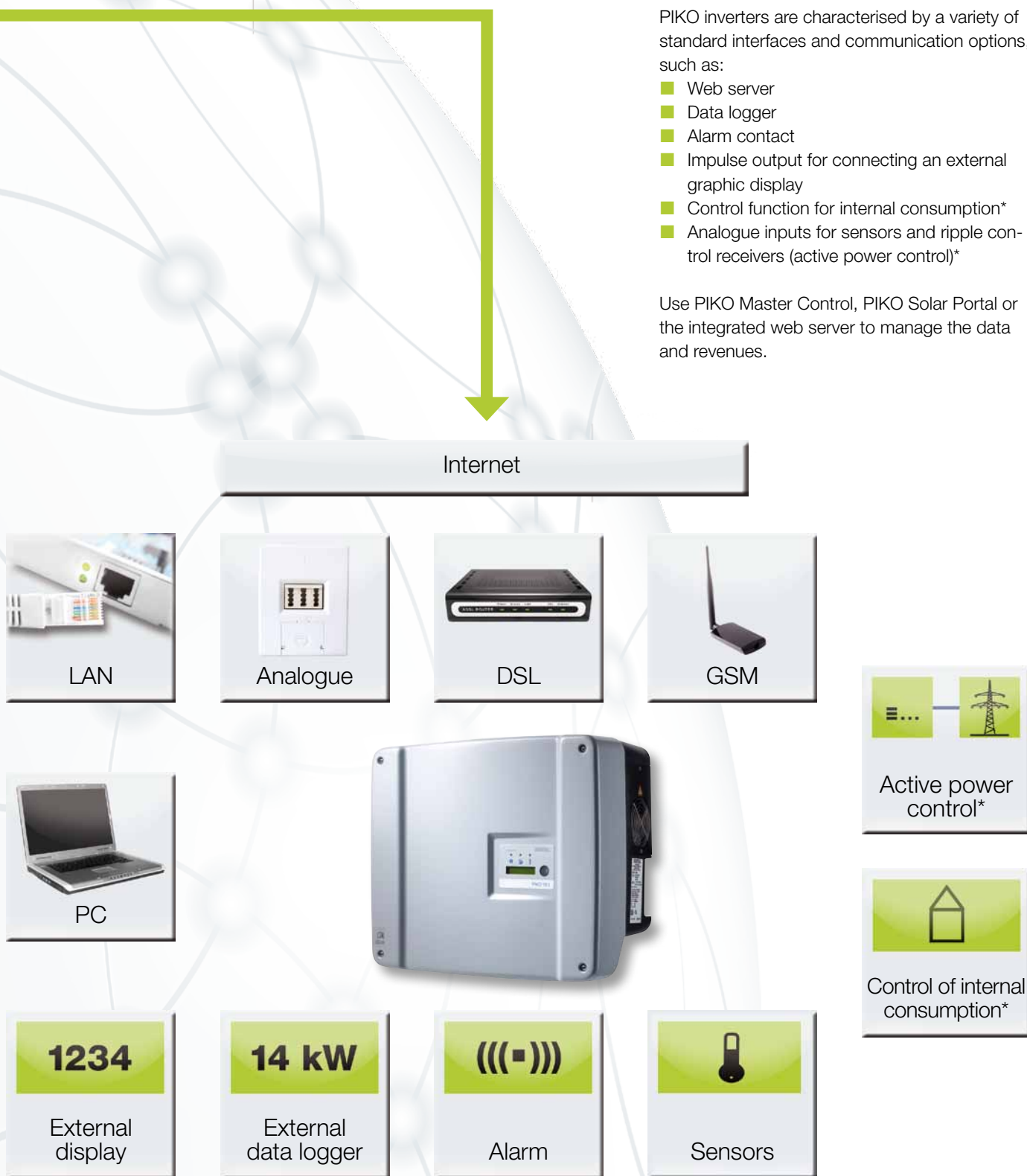
*Can be used in countries with laws supporting internal consumption or prescribing active power control.

PIKO inverter – Diverse options

PIKO inverters are characterised by a variety of standard interfaces and communication options, such as:

- Web server
- Data logger
- Alarm contact
- Impulse output for connecting an external graphic display
- Control function for internal consumption*
- Analogue inputs for sensors and ripple control receivers (active power control)*

Use PIKO Master Control, PIKO Solar Portal or the integrated web server to manage the data and revenues.



*Can be used in countries with laws supporting internal consumption or prescribing active power control.

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