

DESIGNED &
MANUFACTURED IN GERMANY

REFUsol
REFUlog



Highlights:

- Integrated data logger
- Unlimited number of inverters
- Plug & Play
- REFUlog app for iPhone & Android

Unlimited communication

The yields of a photovoltaic system are in the focus of every operator. In this context, the most recent data pertaining to a privately or commercially operated system are required to check the effectiveness. The data basis of your analysis is provided by the **integrated datalogger** in each REFUso/ 010-020K. This records all the key operating parameters.

REFUlog

To **visualise** this data we offer you our own monitoring and analysis internet-portal REFUlog. Every REFUso/ 010-020K inverter allows a connection with your local network and connection to the internet. On all 10-20 kW devices, the installation occurs via **Plug & Play**, an Ethernet connection, and optionally via REFUconnect. REFUso/ 004-006K devices can be connected to your local network via RS485 with the REFUpmu. This means the data can evaluate an **unlimited number** of inverters at any time, world-wide.

The recording of the data can take place over long time frames for all inverters. In addition to the **automatic capacity control**, status monitoring and error reporting options are also integrated. In addition to this, the two operational monitoring and analysis systems, SolarLog and Meteocontrol, are also supported.

inverter
Excellence



Technical data

REFUlog	REFU _{sol} 010 - 020K
General information	
Prerequisite for REFUlog	Compatible from firmware package 25-10 for REFUlog 010-020K
Data logger	Already integrated
PV-plant-Installation	Plug & Play installation through the use of standard Ethernet network; optional with Refu connect (500 m range)
Configuration of plants and sub-plants	Easy to integrate inverters using a unique activation code, location information, plant specific data, pictures
Number of inverters	No limitation
Administration	EN, DE, IT, FR, ES, CZ with localized display varied number formats, dates and other data
Data dispatch	Automatic monitoring of functions
Protocol	TCP IP
Performance spectrum	
Display of plants and inverter data	In clearly laid out lists for easier comparisons
Display of current parameter values per plant and per inverter	Total yields. daily yield (absolute and normalized), AC/DC power rating (absolute and normalized), AC/DC voltage, AC frequency, device temperature, radiation values. module temperature
Graphical analysis of historical data	Day, month, year- and total sum view, display of every plant- and inverter-parameter, combination of various channels in a diagram through a free configurable statistic view
Error management	Overview of all error messages of all inverters and error notification via e-mail
Report dispatching	Daily, monthly or yearly notification of monitored data via e-mail
Refulog	
Additional functions	
Automatic monitoring functions of ideal AC power ¹⁾ , statistical energy prognosis, daily energy divergence, current performance monitoring	
Statistical data tables for energy, normalised energy, earnings, CO2 conservation for inverters, sections or entire plant	
File storage up to 50 MB per plant	
Calculation and display of performance ratio ¹⁾	
Big screen application for the presentation of CO2 reduction, daily, monthly, yearly and total yields	

¹⁾ Available with temperature and incidence measurement SI-13TC-T-K



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