

# DATALOGGER Data acquisition box for PV plant monitoring



## Summary

Cabinet with system for local data storage and presentation over a web interface, local backup and data transfer to a central EMS management station.

## Application

- Solar photovoltaic system – data concentration from communication interfaces, optional alarming

## Function

The datalogger is connected to one or more COM.INTERFACES over the local (on-site) Ethernet network. It reads data from the interfaces, stores them on the internal hard drive or another media, and converts for transfer to the management station. If the datalogger is not part of a central management system it may provide all data over a web server.

With optional accessories (GSM modem), the datalogger is able to send alarm SMS messages. Using local connectivity, alarm e-mails may be sent and connection to a central management station may be configured. (Systems with EMS usually send SMS alarms from the central management station, together for more plants.) If local connectivity is not available, it is possible to use a GPRS router provided the GSM signal level is strong enough and the service is available from the operator.

All plant values are available at the Ethernet interface and communicated to the EMS supervisory system or available over a web server.

## Technical data

Power	230 V AC, max. 35 VA
<b>Interfaces</b>	
Ethernet	Ethernet 10/100BaseT, RJ45 for communication to SCADA and optionally inverters
GSM	optional – GSM modem with antenna, FME connector
<b>Cabinet</b>	
	Polyester – SMC Preprec, grey cable glands below, fixed by 4x M8 scrwes or on any flat base, UV resistant, self-extinguishing, halogen-free
Dimensions	400 (w) x 600 (h) x 300 (d) mm
Protection	IP54

Outside temperature	-20...50°C
Surge protection	Type I and II according to IEC 61643-1
Power terminals	Screw terminals, cables up to 6 mm <sup>2</sup>

Shop drawings of the panel and item list are in a separate document and are not part of this data sheet.

The device is optionally delivered for **19“ rack installation** as a 2U server.

## Terminals

Ethernet (RJ45) connects directly to the PC in the cabinet and is not brought to the terminal rail.

Terminal	Description
X:L	power – live
X:N	power – common
X:PE	power – protective earth

## Optional accessories

<b>RC-Vision-x</b>	SCADA software, 3 <sup>rd</sup> party integration
<b>GSM</b>	GSM modem for alarm SMS and remote control
<b>GPRS</b>	GPRS router for remote access

## Related products

<b>COM.INTERFACE</b>	communication interface for PV monitoring
<b>RFVE</b>	string monitoring box
<b>RPQC</b>	active and reactive power controller
<b>Domat EMS</b>	graphical supervisory system for energy controls

**Topology:**

