

# skyserv<sup>®</sup> Local



## On-Site Data Server for Local Monitoring

Our data server for the on-site storage of data for utility-scale photovoltaic installations. skyserv<sup>®</sup> Local provides enhanced local storage facilities, data backup for up to 20 years. Together with our supervision platform PVGuard<sup>®</sup> Local you can access all data – both live and historic – from your PV plant, whether there is an Internet connection

available or not. The data can be exported at any time for further processing and analysis. A power plant's operating data can be analysed with custom charts as needed. In addition, the system allows the display of live camera feeds from security cameras installed at the site.



skytron<sup>®</sup> energy Local-Monitoring System

## PRODUCT OVERVIEW

- > On-site data server component of a complete monitoring system for utility-scale photovoltaic power plants
- > Basis for verifying long-term energy production
- > Uninterrupted power supply optional
- > Allows for long-term (20 years) on-site data storage
- > Enables data export at any time for further processing and analysis
- > Allows the display of live camera feeds from security cameras installed at the site

## FEATURES

- > Quick and optimized views showing the performance records of your PV plant
- > Individual power plant overview via PVGuard<sup>®</sup> Local or PVGuard<sup>®</sup> Webportal
  - PV string and inverter status information always at your fingertips
  - All inverter information at a glance
  - Combiner boxes at a glance
  - View your power plant data in a chart
- > Customizable diagrams for historical data access
- > Add-on features
  - Broadband communication unit (DSL, SAT or UMTS), incl. preconfiguration
  - Upgrade of Ethernet switch (single- or multi-mode)





## TECHNICAL DATA

	1SSL00401	1SSL00402	1SSL00201	1SSL00202
<b>DATA SERVER HARDWARE</b>				
Processor	Intel Xeon processor	2 x Intel Xeon processor	Intel Xeon processor	2 x Intel Xeon processor
RAM	24 GB	64 GB	24 GB	64 GB
HDD	RAID Level 1	RAID Level 1 (system) & RAID Level 6 (data)	RAID Level 1	RAID Level 1 (system) & RAID Level 6 (data)
1 DC UPS	1500 W, rack mounted, 2 x 750 W / 230 V redundant power supply for data server		optional	optional
1 Ethernet switch	Fibre-optic networking		-	-
<b>SOFTWARE</b>				
Operating Software	Linux			
Application Software	PVGuard® Local			
<b>INTERFACES</b>				
Ethernet, FOC	up to 12x SC-duplex multimode fibre optic		-	-
Ethernet, copper	2x RJ45 interface			
<b>Internal Plant Communication</b>				
Protocol	Gigabit-Ethernet-NIC via RJ45 Ports, skytron® energy specific communication		Gigabit-Ethernet-NIC via RJ45 Ports	
Data rate	10/100/1000 Mbits/s			
Connection	multimode 50/125 µm, e.g. HITRONIC® HQN outdoor cable with SC connector 4G50/125 multimode up to 4 km / 2.5 miles optional: single mode 9/125 µm, e.g. HITRONIC® HQN outdoor cable with SC connector 4E9/125 single mode up to 20 km / 12.5 miles		-	-
<b>ELECTRICAL DATA</b>				
Power supply	220 to 240 VAC / 50 Hz to 60 Hz mains		100 to 240 VAC / 50 Hz to 60 Hz mains	
Power consumption	max. 830 W		max. 750 W	
Standards	IEC 60950-1		IEC 60950-1, UL	
<b>MECHANICAL DATA</b>				
Dimensions h x w x d	24HU, 1200 x 800 x 1000 mm / 47.24 x 31.49 x 39.37 in (including plinth & redundant PSU)		2HU, 86 x 434 x 684 mm / 3.4 x 17 x 27 in (with bezel & redundant PSU)	
Material of cabinet	Sheet steel, light grey powder-coated		-	-
Weight	approx. 180 kg / 396 lbs		-	-
<b>AMBIENT CONDITIONS</b>				
Operating temperature	+10 °C to +35 °C / 50 °F to 95 °F		+10 °C to +35 °C / 50 °F to 95 °F	
Storage temperature	-15 °C to +60 °C / 5 °F to 140 °F		-15 °C to +60 °C / 5 °F to 140 °F	
Relative air humidity	up to 80 % non-condensing			
<b>OPTIONAL ACCESSORIES</b>				
Industrial-type router DSL, SAT or UMTS	Broadband communication, incl. preconfiguration		-	-
Upgrade of Ethernet switch	Adapts 50/125 µm multi-mode to 9/125 µm single-mode		-	-



skyserv® Local - 1SSL00401 / 1SSL00402



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