SmartACU2000B

With SmartPID2000 module

Without SmartPID2000 module

SmartACU2000B (Smart Array Controller)
**is a powerful integration of PV array communication
and other smart functions. What's more, it supports
1000V/1100V/1500V DC system perfectly.**

Smart

- SmartLogger2000 built-in
- SmartPID2000 module built-in (optional)
- Multiple communication interfaces including PLC, RS485, Fast Ethernet, and SFP ports, flexible applications

Simple

- Integrated communication unit with multiple functions built-in
- Easy installation with SmartLogger2000 & SmartPID2000 module pre-assembled inside the cabinet

Reliable

- Industrial application and high reliability

Specifications	SmartACU2000B-D-PLC	SmartACU2000B-D-2PLC	SmartACU2000B-D-PID/PLC	SmartACU2000B-D-2PID/2PLC
Configuration				
SmartLogger	SmartLogger2000			
RS485	Yes			
Number of PLC Module	1	2	1	2
Number of SmartPID2000 Module	0	0	1	2
Environment				
Operating Temperature	-40°C ~ 60°C (-40°F ~ 140°F)			
Relative Humidity	4% ~ 100%			
Max. Operating Altitude	4,000 m (13,123 ft.)			
Electrical				
Input AC Voltage for Cabinet	100 V ~ 240 V, L / N (L)+ PE			
Input AC Voltage for PID	380 V ~ 800 V, 3Ph+FE (Functional Earth)			
Input AC Voltage for PLC	380 V ~ 800 V, 3Ph			
Input AC Frequency	50 / 60 Hz			
Mechanical				
Cable Entries	Bottom in & out			
Maintenance	Front			
Dimensions (W x H x D)	640 x 770 x 315 mm (25.2 x 30.3 x 12.4 inch)		880 x 770 x 369 mm (34.6 x 30.3 x 14.5 inch)	
Weight	29 kg (63.9 lb.)	32 kg (70.5 lb.)	49 kg (108.0 lb.)	61 kg (134.5 lb.)
Protection Rating	IP65			
Installation Options	Wall Mounting, Rack Mounting, Pole Mounting			

Always Available for Highest Yields

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SmartLogger2000

🔆 Smart

- Functioning as communication manager, data logger, PLC master and Ethernet switch
- Multiple communication interfaces including PLC, RS485, Fast Ethernet, and SFP ports, flexible applications
- STP and RSTP supported for fiber ring network and ring protection
- Bluetooth, embedded WEB and USB supported, user-friendly
- Fast and reliable active and reactive power compensation control
- Smart I-V Curve Diagnosis supported

👁 Simple

- Up to 200 devices supported, including up to 150 inverters
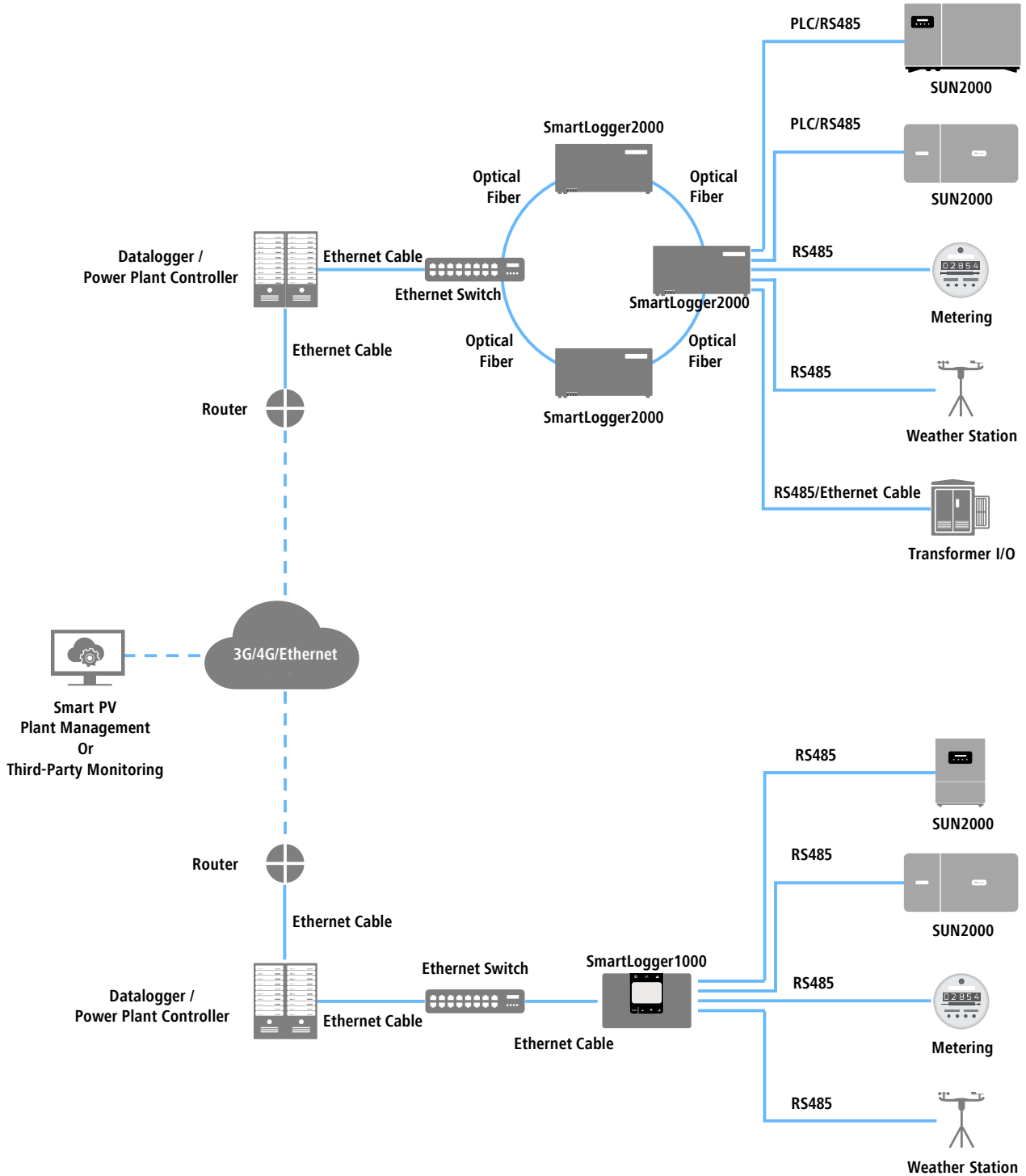- An integration of data collection, protocol conversion and Ethernet switch

✅ Reliable

- Industrial application and high reliability

Technical Specifications	SmartLogger2000
Device Management	
Max. Number of Manageable Devices	200
Max. Number of Manageable Smart Inverters	150
Communication Interface	
Electrical Ethernet	ETH x 2, 10 / 100 Mbps
Optical Ethernet (optional)	SFP x 2, 100 Mbps
RS485	COM x 6, 2400 / 4800 / 9600 / 19200 / 115200 bps
PLC	PLC x 1, 115.2 kbps
Digital / Analog Input / Output	DI x 8, DO x 3, AI x 7, AO x 4, PT100 / PT1000 x 2
Communication Protocol	
Ethernet	Modbus-TCP, IEC 60870-5-104
RS485	Modbus-RTU, IEC 60870-5-103 (standard), DL / T645
Interaction	
LED	LED Indicator x 4
WEB	Embedded WEB
Bluetooth	SUN2000 App
USB	USB2.0 x 1
Environment	
Operating Temperature	-40°C ~ 60°C (-40°F ~ 140°F)
Storage Temperature	-40°C ~ 70°C (-40°F ~ 158°F)
Relative Humidity	5% ~ 95%
Max. Operating Altitude (Non-condensing)	4,000 m (13,123 ft.)
Mechanical	
Power Supply	100 Vac ~ 240 Vac, 50 Hz / 60 Hz
Power Consumption	Typical 8 W, Max. 15 W
Dimensions (W x H x D, with mounting ears)	411 x 170 x 58.6 mm (16.2 x 6.7 x 2.3 inch)
Weight	2.5 kg (5.5 lb.)
Protection Rating	IP20
Export Limitation	Supported
Installation Options	Wall Mounting, Rail Mounting, Integrated Inside Huawei Smart Array Controller

Always Available for Highest Yields

Network Applications

I Optical Fiber Ring Network + PLC

PLC/RS485

SUN2000

PLC/RS485

SUN2000

SmartLogger2000

Optical Fiber

Optical Fiber

**Datalogger /
Power Plant Controller**

Ethernet Cable

RS485

Ethernet Switch

SmartLogger2000

Metering

Optical Fiber

Optical Fiber

RS485

Ethernet Cable

SmartLogger2000

Weather Station

Router

RS485/Ethernet Cable

Transformer I/O

3G/4G/Ethernet

**Smart PV
Plant Management
Or
Third-Party Monitoring**

RS485

SUN2000

RS485

SUN2000

Router

Ethernet Cable

Ethernet Switch

SmartLogger1000

RS485

**Datalogger /
Power Plant Controller**

Ethernet Cable

Metering

Ethernet Cable

RS485

Weather Station

II Star Ethernet Network + RS485

Always Available for Highest Yields