

# SmartACU2000B



With PID



Without PID

**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
- Smart Anti-PID2000 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 & anti-PID 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
	<b>Configuration</b>			
SmartLogger	SmartLogger2000			
RS485	Yes			
Number of PLC Module	1	2	1	2
Number of Smart Anti-PID2000 Module	0	0	1	2
	<b>Environment</b>			
Operating Temperature	-40 °C ~ +60 °C (-40 °F ~ +140 °F)			
Relative Humidity	4% ~ 100%			
Max. Operating Altitude	4,000 m (13,123 ft.)			
	<b>Electrical</b>			
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 Hz / 60 Hz			
	<b>Mechanical</b>			
Cable Entries	Bottom in & out			
Maintenance	Front			
Dimensions ( W / H / 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	29kg (63.9 lb.)	32 kg (70.5 lb.)	49 kg (108.0 lb.)	61 kg (134.5 lb.)
Protection Grade	IP65			
Installation Options	Wall Mounting, Rack Mounting, Pole Mounting			

# 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

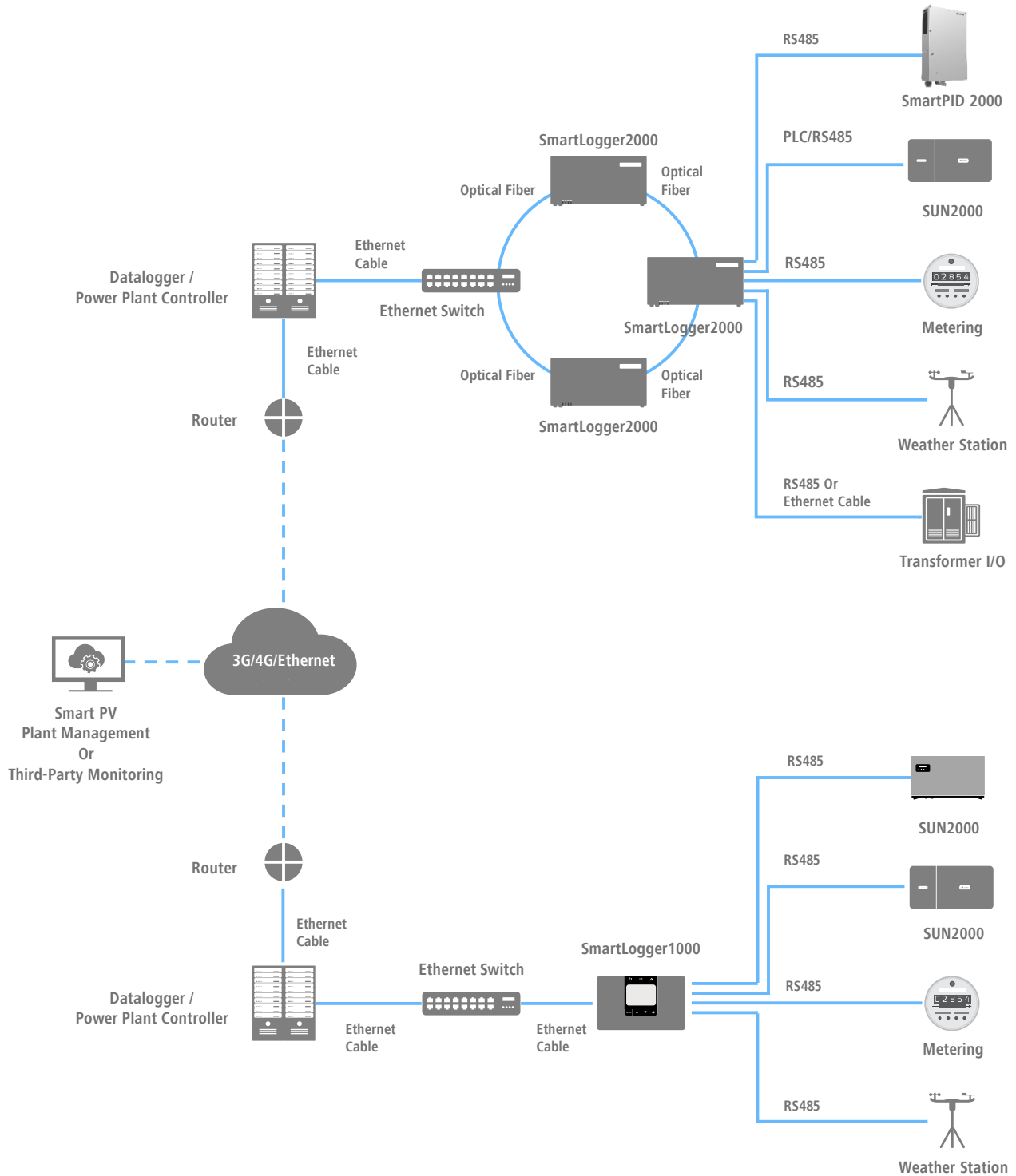
- Industrial application and high reliability

Technical Specifications	SmartLogger2000
	<b>Device Management</b>
Max. Number of Manageable Devices	200
Max. Number of Manageable Smart Inverters	150
	<b>Communication Interface</b>
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 x3, AI x 7, AO x 4, PT100 / PT1000 x 2
	<b>Communication Protocol</b>
Ethernet	Modbus-TCP, IEC 60870-5-104
RS485	Modbus-RTU, IEC 60870-5-103 (standard), DL / T645
	<b>Interaction</b>
LED	LED Indicator x 4
WEB	Embedded WEB
Bluetooth	SUN2000 App
USB	USB2.0 x 1
	<b>Environment</b>
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.)
	<b>Mechanical</b>
Power Supply	100 Vac ~ 240 Vac , 50 Hz / 60 Hz
Power Consumption	Typical 8 W, Max. 15 W
Dimensions (W x H x D)	411 x 170 x 58.6 mm (16.2 x 6.7 x 2.3 inch), with mounting ears
Weight	2.5 kg (5.5 lb.)
Export Limitation	Supported
Protection Rating	IP20
Installation Option	Wall Mounting, Rail Mounting, Integrated Inside Huawei Smart Array Controller

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# Network Applications

## I Optical Fiber Ring Network + PLC



## II Star Ethernet Network + RS485