

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 1000 V / 1100 V / 1500 V 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-level application and high reliability

| Technical Specifications | SmartACU2000B-D-PLC | SmartACU2000B-D-PID/PLC |
|-------------------------------|--|--|
| Configuration | | |
| SmartLogger | SmartLogger2000 | |
| RS485 | Yes | |
| Number of PLC Module | 1 | 1 |
| Number of SmartPID2000 Module | 0 | 1 |
| Environment | | |
| Operating Temperature Range | -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 Hz / 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.) | 49 kg (108.0 lb.) |
| Protection Degree | Type 4X (without SmartPID2000 Module) | Type 3R (with SmartPID2000 Module) |
| Installation Options | Wall Mounting, Rack Mounting, Pole Mounting | |

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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-level 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 | USB 2.0 x 1 |
| | Environment |
| Operating Temperature Range | -40°C ~ 60°C (-40°F ~ 140°F) |
| Storage Temperature Range | -40°C ~ 70°C (-40°F ~ 158°F) |
| Relative Humidity (Non-condensing) | 5% ~ 95% |
| Max. Operating Altitude | 4,000 m (13,123 ft.) |
| | Electrical |
| Power Supply | 100 V ~ 240 V, 50 Hz / 60 Hz |
| Power Consumption | Typical 8 W, Max. 15 W |
| | Mechanical |
| Dimensions (W x H x D) | 411 x 170 x 58.6 mm (16.2 x 6.7 x 2.3 inch) |
| Weight | 2.5 kg (5.5 lb.) |
| Protection Degree | Type 1 |
| Export Limitation | Supported |
| Installation Options | Wall Mounting, DIN Rail Mounting, Integrated Inside SmartACU2000B |

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