

Power Distribution Switch Status Monitoring Module | OM-ACM-DA801



The OM-ACM-DA801 monitors 6 channels of AC mains directly with 90-275V wide-voltage input and millisecond-level response, eliminating the need for signal conversion modules. It features triple-stage lightning protection (2kV/1kA), 1500Vrms I/O isolation, and full-port overcurrent/overvoltage/reverse connection protection for safe, reliable operation in high-voltage environments. With -40~85°C operating temperature and 5-95% RH tolerance, it ensures accurate status detection even under voltage fluctuations and harsh conditions.

Specifications

Mains Input

AC Channels	6
Connector Type	Phoenix terminal
Interface Type	Wet contact
Channel Isolation	1500Vrms
Sampling Frequency	1 kHz
Logic Threshold	Logic 0: $\leq 75V$ AC; Logic 1: 90 ~ 275V AC

Serial Interface

Interface Type	RS485
Port Quantity	1
Connector Type	Phoenix terminal
Protocol	Modbus RTU

Power Supply

Connector Type	Phoenix terminal
Input Voltage	9 ~ 27V DC
Current	30 mA @ 12V DC
Power Consumption	$\leq 0.3W$

Operating Environment

Operating Temperature	-40°C to 85°C
Operating Humidity	5% ~ 95% RH (non-condensing)

Mechanical Specifications

Mounting Method	Positioning hole / DIN rail mounting
Dimensions (W×D×H)	115 × 76.2 × 38 mm (± 1 mm, excluding terminals and antenna)