



MEGATEC

Instruction Manual

AS400

MegaTec

2023/7/6

The document is a brief introduction about Net485 function. For the specific operation, please contact our technical support.

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Chapter1. Introduction

1.1. Features

The AS400 relay card converts the RS232 signal of the “MegaTec” protocol into a true potential-free dry contact signal, and reflects the operating status of the UPS in real time through changes in the contact signal.

Features:

1. CPU is PIC 8Bit, system clock is 20MHz, flash memory is 4096 word, and SDRAM is 256 word.

- 2. AS400 normal operating temperature and humidity range is 0°C to 60°C and 5% to 95%
- 3. FCC, Class B, CE.

1.2. Power Specifications

Item	Minimum	Maximum
DC Input Voltage	+5.3V	+40V
DC Input Current		3W Maximum

1.3. Pin Assignment

Pin	PIN Definition	Input / Output	Description
P1	UPS Failure	O/P	P1 short to P5
P2	Summary Alarm: UPS Failure, B attery Low, Utility Failure.	O/P	P2 short to P5
P3	GND	I/P	
P4	Remote Shutdown	I/P	P4 short to P3

P5	Common for Relays	I/P	
P6	Bypass Active	O/P	P6 short to P5
P7	Battery Low	O/P	P7 short to P5
P8	UPS ON	O/P	P8 short to P5
P9	Utility Failure	O/P	P9 short to P5

1.4. Signal Specification

Receiver Inputs

PARAMETER	CONDITIONS	MIN	TYP	MAX
Input Voltage Range		-25V		+25V
Input Threshold Low	TA=±25°C	+0.6V	+1.2V	
Input Threshold High	TA=±25°C		+1.5V	+2.4V
Input Hysteresis			0.3V	
Input Resistance	TA=±25°C	3 k ohm	5 k ohm	7 k ohm

Transmitter Outputs

PARAMETER	CONDITIONS	MIN	TYP	MAX
Output Voltage Swing	All transmitter outputs loaded with 3k ohm to ground	±5.0V	±5.4V	
Output Resistance	TA=±25°C	300	10M	
Output Short-Circuit Current			±35mA	±60mA

1.5. Size Specification

AS400 Internal Card

Dimension	137.7mm(L) × 60mm(W) × 43.0mm(H)
Weight	88g±2g
Connector	26PIN gold finger



AS400 Mini Internal Card

Dimension	81.06 mm(L) × 51.76 mm(W) × 25.8 mm(H)
Weight	45 g±2 g
Connector	26PIN gold finger



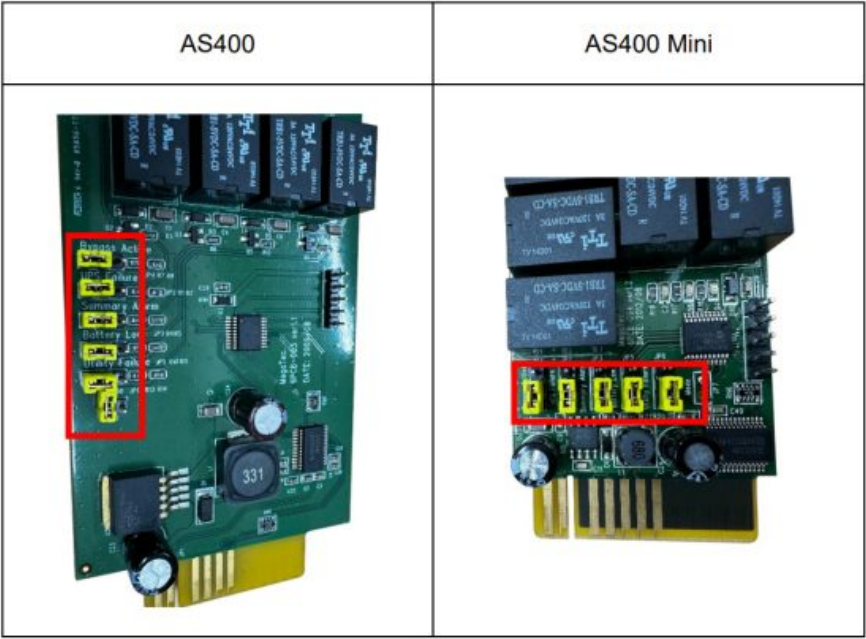
AS400 External Card

Dimension	156 mm(L) × 82 mm(W) × 32 mm(H)
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directly refer to the above “PIN Assignment” for verification testing.

Users can directly connect the AS400 to a UPS or simulation software, or directly short-circuit the PIN on the AS400 relay card for verification testing (The outer casing of the external card needs to disassemble, please confirm with our technical support before operation).

Test PIN:



Documents / Resources

	MegaTec AS400 Relay Card Converts [pdf] Instruction Manual 2023, AS400 Relay Card Converts, AS400, Relay Card Converts, Card C onverts, Converts
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References

- [User Manual](#)

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