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FEATURES

- RS232 to Isolated 1-Wire adapter.
- Up to 1000 feet, 100 devices.
- Automatically provides smart strong
- Built-in DB9 for cable connection to PC.
- 9 VDC AC adapter included.
- Provides isolated power to the network.
- Short-circuited network recovery function.
- TMEX compatible using DS9097E driver.
- ESD Protection more than 27kV (IEC801-2 Reference Model.)



DESCRIPTION

The HA4B is a RS232 to isolated 1-Wire adapter. Designed to mate with the DB9 RS232 port of a PC, this powered converter provides the necessary level conversion from RS232 to 1-Wire device levels while providing 2000VAC isolation from the PC to the 1-Wire network. The HA4B can drive up to 100 1-Wire devices at cable lengths of up to 1000 feet. The HA4B is recommended for applications where isolation from the network is required; analog applications or isolated digital applications. The HA4B typically withstands 1600V_{RMS} for 1 minute or 2000V_{RMS} for 1 second. External power is applied via a standard power jack. Boost current for DS18B20 or DS18S20 temperature conversion is provided by RTS switching so that parasitic temperature conversion is supported. The HA4B also has an improved short-circuited network recovery function that provides fast recovery from a shorted (energy depleted) network. The circuitry in the network driver stage of the HA4B automatically senses a shorted network and provides a high current boost to the network until all the devices on the network have recovered to a viable operation voltage. EDS OneSix DDE Server and OPC Software Drivers support the HA4B. This makes connecting EDS 1-Wire products to your PC easy. The Standard HA4B comes with the OneSix DDE Server Software and a single user license.

PARAMETER	MIN	TYP	MAX	UNITS
Supply Voltage	5.5	6	35	Volts
Supply Current			100	mA
Output Voltage (isolated "+" pin)	4.5	5	6	Volts
Output Current (isolated "+" pin)	25	30	35	mA
Shorted network recovery current	60	70	85	mA
Isolation Voltage	1600 for 1 minute		2000 for 1 second	Volts RMS
Isolation Resistance	100	10,000		MOhms

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