

BTI2 Electrical Specifications

Absolute Maximum Ratings

Ambient temperature range: +5° ~ +50° C

Storage temperature range: -5° ~ +55° C

Voltage on Vcc with respect to GND: -0.3 ~ +6.5V

Voltage on Reset, Tx, Rx with respect to GND: -0.3 ~ (Vcc+0.3)

Voltage on Vpmp with respect to GND: +7.2V

Serial Communication

TTL level, 9600, N, 8, 1

Alcohol Measurement

Fuel cell:

Operating life: 1 year (minimum)

Specificity: specific for alcohol, no cross

Sensitivity to ketones or hydrocarbons

Range: 0~255 mg% BAC

Resolution: 1mg% BAC

Accuracy: +/-5 mg% BAC for solution < 50 mg% BAC

+/-10% for solution >= 50 mg% BAC

Analyzing time: < 6 seconds at 100 mg% BAC

Purging time: < 60 seconds at 100 mg% BAC

Warm-up time: 2 minutes (maximum)

Alcohol Calibration

Solution: 50 mg% BAC

Power Supply

Total power dissipation: Vcc -- 400mW (maximum)

Vpmp -- 20W (maximum)

Maximum current Icc: 100mA

Maximum current Ipmp: 3A

Nominal Vcc: +5V/100mA with 750mA fuse

Nominal Vpmp: +5V/3A (recommended) with 5A fuse