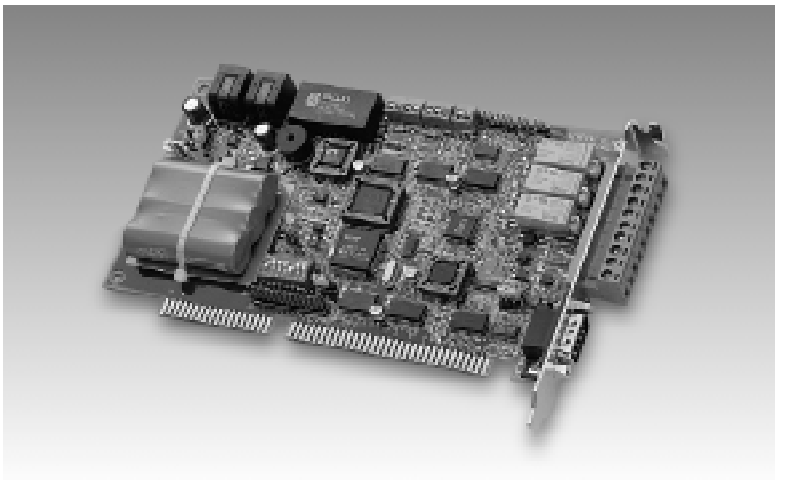
PCL-752

Intelligent System Monitoring Card



Features

- Monitors ISA bus voltages
- Three external voltage sensor inputs
- Three fan sensor inputs for fan speed monitoring
- Three temperature sensor inputs
- Two “power good” signal inputs
- Two isolated digital inputs and 3 relay outputs
- Watchdog timer for detecting system CPU operations
- RS-485 or RS-232 port, supporting modem output
- Audible alarm with three sound effects
- On board battery backup ensuring normal card operation in case of system power failure

Introduction

The PCL-752 is an intelligent PC-system monitoring card. It can detect abnormal system operations and generate alarm outputs, allowing the user to take action before system failure. The user can thus change his industrial PC into an intelligent, self-diagnostic PC by using a PCL-752, increasing PC reliability for critical applications, such as communications and telephony.

Powerful Functions

The PCL-752 can detect a wide variety of internal system conditions including internal temperature, voltage, fan operation, power supply status and system CPU operation. It can generate several different alarm outputs including acoustic signal, system reset, relay output, and message generation, depending on the alarm level or user setup. The on-board CPU allows a user to set the alarm criteria of each sensory input independently, and to program different alarm outputs to meet user requirements.

High Reliability

The PCL-752 features a built-in watchdog timer, the best assurance of card reliability. Digital input lines are isolated (up to 2000 V_{DC}) to prevent damage due to high voltage input. On-board battery backup enables the PCL-752 to perform its alarm functions even under a total system power failure.

Remote Monitoring

The serial port of the PCL-752 can be configured either as an RS-485 port (with a communication distance up to 4000 feet), or as an RS-232 port (to connect to other devices with an RS-232 port, such as a modem). The user can remotely monitor a number of computers connected through a host computer's serial port.

Easy to Use Powerful Software Utility and Drivers

The PCL-752 is delivered with a powerful yet easy to use “PC Sentry” utility software. PC Sentry can be used under Windows 95/NT, allowing a system host to communicate with one or more PCL-752 alarm cards through the RS-232 port for configuration, alarm level setting, real-time status display, alarm event log, etc. The DLL driver eases the programming efforts of users who want to integrate the alarm function in their own application software under Windows 95/NT.

Specifications

Voltage Inputs:

- **System Voltages:** +5 VDC: 0 ~ +6.8 VDC, +12 VDC: 0 ~ +16.32 VDC
  -5 VDC: 0 ~ -6.8 VDC, -12 VDC: 0 ~ -16.32 VDC
- **3 external voltage inputs:** 0 ~ 4.08 VDC
- **Voltage accuracy:** ±0.5% of FSR
- **Temperature Sensors:**
  Temperature Sensor 1 (on board): 0 ~ 60° C (32 ~ 140° F)
  Temperature Sensors 2 and 3: -30 ~ 125° C (-22 ~ 257 ° F)
  Temperature accuracy: ± 3° C
- **Fan Monitor:** Fan Sensor 1 and 2: 700 ~ 10000 RPM
  Fan Sensor 3: 2800 ~ 40000 RPM
  Fan Speed Accuracy: ± 10% Max.
- **Watchdog timer for system CPU:**
  Programmable interval: 1 ~ 255 sec.
- **Power Good Input:** Hi: > 2.4 V; Lo: < 0.8 V
- **Isolated Digital Input:** Hi: > 4 VDC (12 V max); Lo: < 1VDC
  Isolation voltage: 2000 VDC
- **Relay Digital Output:** NC or NO (selectable by jumper)
  Power Rating: 125 VAC @ 0.3 A, 30 VDC @ 1 A
- **Serial Port:** RS-232 or RS-485 (selectable by jumper)
  Baud rate: 1200, 2400, 4800, 9600, 19200 bps
  Board ID: 1 ~ 255 (0 for configuration only)
- **ISA interface:** I/O space: 8 I/O space
  IRQ: 2, 3, 4, 5, 6, 7, 10, 11, 12, 14, 15 and none
- **Battery:** Charge time: 4 hr
  Battery capacity: 1200 mA-H (full charged, for 0.5 ~ 1 hr operation, depends on the outputs used)
- **Power Comsuption:** +5VDC @ 400mA (typicl);
  +5VDC @ 650mA (max.)
- **Operating Temperature:** 0 ~ 60° C (32 ~ 140° F) (refer to *IEC 68-2-1, 2*)

Ordering Information

❑ **PCL-752:** Intelligent System Monitoring Card, user’s manual, utility disk, 2 external temperature sensors.