



DESCRIPTION

The **PCI-773** is an 16 channel RTD or thermocouple input board. In the same tradition as our ISA-bus board, the PC-73C, the PCI-773 provides the user with a cost-effective solution for measuring signals from up to 16 thermocouple or 16 RTD sensors. No external signal conditioning is required to allow the board to accept these inputs.

For external control and/or feedback, it features 16 digital inputs and 16 digital outputs. These can typically be used for turning items on or off, or as an alarm trigger. An extremely compact board, the PCI-773 measures 143mm x 99mm and will fit most PCI-bus systems.

Boards come included with a screw-terminal adaptor with integrated cold-junction-compensation (CJC) and an I meter screened cable. The RTD version also features individual 1mA/10mA current sources.

Typical applications include temperature measurement for furnaces, cold storage rooms, aquariums and greenhouses.

FEATURES

- 16 Differential Analog Inputs
- J, K, E, T, R, S, B, C Thermocouples supported
- 14-bit resolution
- ± 2.5V full scale input
- 16 Digital Inputs
- 16 Digital Outputs
- Includes WaveView Temperature Application
- Windows98/ME/2000/XP OS Support (Linux & NT on request)
- WaveView for Windows Data Acquisition & Logging Software
- Labview, Testpoint and VEE Pro Drivers
- PCI-bus revision 2.2 compliant @ 33MHz
- 3.3V or 5V PCI slot compatible

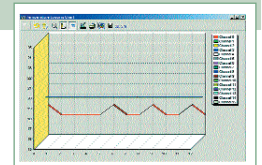
Specifications

ANALOG INPUTS	
Conversion Characteristics	
Resolution	14-bit
Max. Full Scale Error	0.05%
Max. A/D Sample Rate	10 kHz (Software controlled)
Input Characteristics	
Max. Input Voltage	± 2.5V (Gain=1)
Input Bandwidth	132Hz
DIGITAL Inputs	
Compatible	74HCT573
DIGITAL OUTPUTS	
Compatible	74HCT374
EXTERNAL	
Dimensions	143 mm x 99 mm

FREE Temperature Data Logging Software

Waveview for Windows Software provides the user with an easy-to-use temperature display and data logger. It allows users without programming knowledge to quickly configure our PCI-773 card and to start logging and monitoring temperature inputs on all 16 channels.

- Real-time temperature bar-graph displays for each channel
- Save graphs as bitmap files or print graphs
- Streaming to disk in Excel file format



DB-37M			IDC-40M		
-12V_FUSED	20	1 AGND	D10	1	D1
AGND	21	2 +12V_FUSED	D12	3	D13
Ch15-	22	3 CJC TEMP	D14	5	D15
Ch14-	23	4 Ch15+	D16	7	D17
Ch13-	24	5 Ch14+	D18	9	D19
Ch12-	25	6 Ch13+	D110	11	D111
Ch11-	26	7 Ch12+	D112	13	D113
Ch10-	27	8 Ch11+	D114	15	D115
Ch9-	28	9 Ch10+	DGND	17	DGND
Ch8-	29	10 Ch9+	DO0	19	DO1
Ch7-	30	11 Ch8+	DO2	21	DO3
Ch6-	31	12 Ch7+	DO4	23	DO5
Ch5-	32	13 Ch6+	DO6	25	DO7
Ch4-	33	14 Ch5+	DO8	27	DO9
Ch3-	34	15 Ch4+	DO10	29	DO11
Ch2-	35	16 Ch3+	DO12	31	DO13
Ch1-	36	17 Ch2+	DO14	33	DO15
Ch0-	37	18 Ch1+	DGND	35	DGND
	19	19 Ch0+	+5V_FUSED	37	38 DGND
			DGND	39	40 +5V_FUSED



Supplied with Internal Cable (IDC40 to DB37)

Optional Accessories

PC-43A1	Digital I/O Module
	(1x) 16ch; (2x) 8ch Digital O/P Connectors
	(1x) 16ch; (2x) 8ch Digital I/P Connectors
IDC40	40way Ribbon Cable
DB37M/F	DB37 (M) to DB37 (F) Screened Cable

Ordering Information

Supplied with EDR Enhanced Software, WaveView for Windows, 1m Screened Cable and Screw Terminal Adaptor Module

PCI-773-T	16 Channel Thermocouple PCI Input Board
PCI-773-R	16 Channel RTD PCI Input Board

Optional Accessories Diagram

