



International Ltd.

TEST – MEASURE - CONTROL

CATS-1000 Pricing  
PN 100-0810-001

**CATS-1000 Price.....\$22,900.00**

“Configurable Automated Test System”

Standard Delivery = 50 Days ARO

**Deliverables:**

- Users Guide

**Warranty:**

- 1 Year Warranty on Hardware
- 90 Day Warranty on Software

**Optional:**

- On Site Installation & Training



Dimensions: 11"H x17.0"W x 15.0"D

**CATS-1000 HW Description:**

- (12) 4-pin Transducer I/O signals, circular connector
- (1) 14-pin Digital I/O signals,  $\pm 24VDC$ , circular connector
- (1) 37-pin Analog I/O signals,  $\pm 10V$ , circular connector
- (1) 50-pin bi-metallic Thermocouple sub-D connector
- (1) RJ 45 Input for programming
- (1) 32ch Analog Input Module and (1) 32ch Digital Input Module
- (1) 32ch Digital Output Module
- (2) Thermocouple Input Modules

**Module (Digital Input) Description (included)**

Channels	32
Single-Ended Channels	32
Differential Channels	16
Resolution	16 bits
Sample Rate	250 kS/s
Max Voltage	10 V
Maximum Voltage Range	-10 V - 10 V
Maximum Voltage Range Accuracy	6220 $\mu V$
Minimum Voltage Range	-0.2 V - 0.2 V
Minimum Voltage Range Accuracy	157 $\mu V$

**Module (Digital Output) Description (included)**

Number of Channels	32
Timing	Hardware
Max Clock Rate	2 kHz
Logic Levels	Other
Output Current Flow	Sourcing
Current Drive Single	0.25 A
Supports Handshaking I/O	No
Supports Pattern I/O	Yes
Maximum Output Range	6 V - 36 V

**Module (Analog Input) Description (included)**

Channels	32
Single-Ended Channels	32
Differential Channels	16
Resolution	16 bits
Sample Rate	250 kS/s
Max Voltage	10 V
Maximum Voltage Range	-10 V - 10 V
Maximum Voltage Range Accuracy	6220 $\mu V$
Minimum Voltage Range	-0.2 V - 0.2 V
Minimum Voltage Range Accuracy	157 $\mu V$

**Module (Thermocouple) Description (included)**

[2 X] Channels	16
Single-Ended Channels	0
Differential Channels	16
Resolution	24 bits
Sample Rate	1200 S/s
Bandwidth	78 Hz
Max Voltage	78.125 mV
Maximum Voltage Range	-78.125 mV - 78.125 mV
Maximum Voltage Range Accuracy	38 $\mu V$
Simultaneous Sampling	No

## **CATS-1000 SW Description:**

The CATS software is developed on a background of National Instruments LabVIEW and provides flexibility in program operation. In this application the CATS software operates on a scripted text file from soup-to-nuts, so operators need not know the complexities of the system or LabVIEW and can focus on their tasks.

CATS software configurations all maintain a common architecture and theme, so as your program grows the environment need not be redefined and relearned.

### **Analog Input Module**

Fastek's Analog Input Module provides an interface to a wide variety of general purpose analog input platforms. The module typically supports platforms with a voltage range of  $\pm 10V$ , sampling rates up to 250Ks per second, and 16 bits per sample of resolution. Fastek's highly scalable application architecture supports multiple analog input modules each controlling 16 channel, or greater, single ended and differential DAQ hardware.

### **Analog Output Module**

The Analog Output Module interfaces with a wide range of general purpose analog output DACs. Typical output modules have a range of  $\pm 10V$ , sampling rate of up to 1Ms per second, resolution of 12 to 16 bits, and contain 4 to 96 channels. Multiple Analog Output Modules are generally present in any given CATS application where each controls their own DAC.

### **Thermocouple Module**

A wide range of multichannel DAQ cards specifically designed thermocouple signal acquisition are supported by Fastek's Thermocouple interface Module. This module supports a set of DAQ cards covering all industry standard thermocouple types. Also supported are cards with the most demanding form factors and cards with the greatest sets of capabilities.

### **Digital Input Module**

Fastek's Digital Input Module interface focuses on a subset of digital DAQs with the following specifications: (8 to 96 channels TTL, LVTTTL, or CMOS inputs) (Up to 20MHz (80MB per second) transfer rate) (Supports 8, 16, or 32 bit transfers) (Independent trigger signals to start data acquisition and pattern generation).

### **Digital Output Module**

The CATS Digital Output Module provides precise control of discrete logic signals for the most demanding process control, peripheral, and IC chip communications applications. The software module is designed to interface with digital output cards supporting programmed I/O, interrupt, and bus-mastering DMA type data transfers.

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