

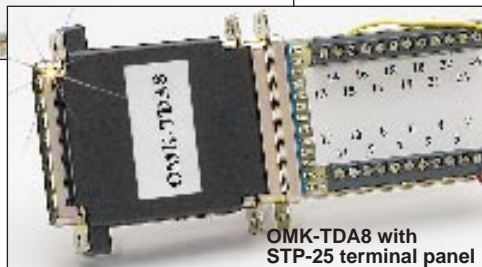


# OMEGAData™ Series Data Acquisition Systems

## OMK-TDA Series Low Cost Parallel Port Data Acquisition

OMK-TDA3

**\$199**



OMK-TDA8 with STP-25 terminal panel

✓ **Direct Thermocouple Input, 3 Channel and 8 Channel Models**

✓ **Millivolt Inputs**

The OMK-TDA series are parallel port interfaces for reading thermocouples and other process signals. There are two models available, the OMK-TDA3 and the OMK-TDA8. The OMK-TDA3 has three inputs which can be used to read thermocouples or millivolt signals and two analog inputs that can accept voltage signals in the range of 0-4 volts. Three digital input/output lines are also provided. The OMK-TDA8 is a dedicated thermocouple measurement device that can read up to 8 thermocouples.

Both OMK-TDA series products plug into the parallel port of a standard IBM PC or compatible computer and derive all power from that port making them ideally suited for portable applications.

The OMK-TDA series comes with a standard software package. The software is a Microsoft Windows compatible display and logging program. A Data Plotter is included that allows the analog input values

to be plotted versus time. Data may also be logged at user specified intervals in a format which is compatible with most spread sheet programs.

A Windows 16 and 32-bit DLL driver is also included as well as DOS subroutines for C and BASIC.

**Specifications**

**OMK-TDA3**

**Thermocouple/millivolt Inputs**

**Number of inputs:** 3

(J, K, T or millivolt)

**Ranges:** Type J -50 to 800°C;  
Type K -50 to 1000°C;  
Type T -25 to 500°C

Millivolt -5 to 45 millivolt

**Thermocouple Accuracy:** 1.5°C @ 25 °C

**Thermocouple Resolution:** 1°C

**Millivolt Accuracy:** 0.5% F.S.

**Millivolt Resolution:** 0.01 mV

**Voltage Inputs**

**Number of Analog Inputs:**

2 single-ended

**Resolution:** 12 bits

**Analog Input Range:** 0 V to 4 V

**Hardware Conversion Time:**

Dependent on speed of host computer, 22µs minimum, 35µs on a 486-Dx266, 160µs on a 386-Dx33

**Digital I/O**

**Number of Digital I/O Lines:** 3

**Max. Current (Sinking):** 4 mA

**Max. Current (Sourcing):** 0.5 mA

**Overvoltage Protection:** +5/-0.5 Vdc

**OMK-TDA8**

**Number of Thermocouple Inputs:** 8

**Ranges:** Type J -50 to 800°C;

Type K -50 to 1000°C;

Type T -25 to 500°C

(millivolt reading not supported)

**Accuracy:** 1°C

**Resolution:** 0.1°C

**Throughput:** 1 sample on all channels every 10 seconds

**PHYSICAL**

**(OMK-TDA3 AND OMK-TDA8)**

**Operating Temperature Range:** 0 to 70°C

**Dimensions:** 2.3" L x 2.2" W x 0.6" D (58.4 x 55.8 x 15.2 mm)

**Power Consumption:** 50 mW

To Order (Specify Model No.)		
Model No.	Price	Description
OMK-TDA3	\$199	Data acquisition interface for 3 thermocouple/mv inputs, 2 analog inputs and three digital I/O
OMK-TDA8	199	Data acquisition interface for 8 thermocouple inputs
OMK-STP25	30	Screw terminal panel. Plugs into OMK-TDA3 and OMK-TDA8

The OMK-TDA devices include data collection software, software drivers and complete user's manual.

**Ordering Example:** OMK-TDA3 with OMK-STP25 terminal panel, \$199 +30 = **\$229.**