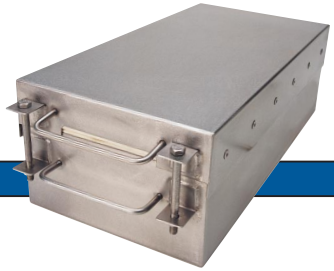
INDATA™



ECD® SINCE 1964

Source Direct Profiling™

INDATA™ is a Traveling Industrial Real-Time Temperature Recording System

INDATA™ TEMPERATURE PROFILING SYSTEMS ARE DESIGNED TO MEET THE TOUGH DEMANDS OF...

- **Static and Conveyorized Ovens, Furnaces, and Kilns**
- **Heat Treating**
- **Powder Coating**
- **Vacuum Casting**
- **Investment Casting**
- **Ferrous Founding**
- **Non-Ferrous Founding**
- **Alloy Extruding**
- **Ceramic Manufacturing**
- **Brick and Tile Manufacturing**
- **Glass Tempering**
- **Glass Bending**
- **Coating and Ink Curing**
- **Textile Manufacturing**
- **Spring Annealing**

...And More!

THE CRITICAL DATA YOU NEED... IN REAL-TIME, SOURCE DIRECT!

INDATA™ Industrial Temperature Profiling Systems measure true product temperatures in Real-Time for improved Quality and Increased Profitability

INDATA™ allows Metallurgists, Process Engineers, Operators and Managers to make informed decisions for continuous improvement

Never again feed and retrieve long thermocouples from your process!

Interchange K and S-Type Thermocouples with the **INDATA™** unique internal connection bridge

Match an **INDATA™** thermal barrier to the time, temperature and space requirements of your process

Trigger Operator Actions with Real-Time Alarm Points

Reduce Scrap, Increase Productivity, Save Energy Costs and Increase Profits

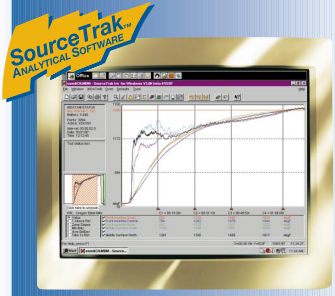
Develop new products on schedule with confidence

Analyze performance easily with **SourceTrak™** software

Develop more credibility with your customers while satisfying ISO-9000 documentation requirements

Internationally specified, **INDATA™** Profiling Systems are CE Marked to meet European Directives

Now YOU can have the Source Direct Profiling™ advantage via the FCC Approved selectable radio frequency RF data transfer system.



Profiling activity is controlled and results/reports are easily obtained with integral ***SourceTrak™*** software for Windows™

FREE DEMO!

Make an investment in process quality.
Let us prove it to you!
Call us for an INDATA™ Demo Today!

(503) 659-6100

Internet: http://www.ecd.com
e-mail: indata@ecd.com
Fax: (503) 659-4422

4287-A SE International Way
Milwaukie, OR 97222-8825

Made In The U.S.A.

Source Direct Profiling

Product Specifications

Application

INDATA™ is a traveling real-time temperature recording system designed for the demands of Industrial Manufacturing Markets. It is rugged, survivable, RF-capable and easy to use.

INDATA™ Profiler

Input Types: *Micro Style, Type-K, Type-S Thermocouples, and other sensors*
Number of Inputs: *Up to 6*
Physical Dimensions: *0.37" x 3.5" x 6" (9.41mm x 89mm x 152.4mm)*
Temperature Measurement Range:
K-Type: -200°F to 2,372°F (-129°C to 1,300°C)
S-Type: 0°F to 3,182°F (-18°C to 1,750°C)
Internal Operating Temperature Range:
32°F to 122°F (0°C to 50°C)
Accuracy: *Within ±1.8°F (±1°C)*
Resolution: *1°F (0.56°C)*
Sampling Interval: *0.2 Seconds to 24 Hours (0.5 sec. to 24 Hours with RF)*
Number of Samples: *5,460 per each of 6 channels*
Power Supply: *Rechargeable Power Pack*
Expected Power Pack Life: *300-400 charging cycles*
Operation Manual
CE *Marked to European Directives*

INDATA™ Thermal Barrier

Exterior/Box: *Inconel construction*
Dimensions: *Range of 6.0" x 9.0" x 18.0" (152mm x 228mm x 457mm) to 10.0" x 13.0" x 22.0" (254mm x 330mm x 560mm) Model/Range/Application Dependent Custom sizes available - call ECD for quote*
Insulation: *Micro porous and phase-change heatsinks*
Sensor Connections: *6-Internal, via a replaceable K or S Type Bridge for OST style thermocouple connectors*
Time/Temperature: *Example at 120 minute duration; 475°F to 1,650°F (246°C to 900°C)*

RF Transmitter

Dimensions: *0.4" x 3.5" x 2.8" (10.16mm x 88.9mm x 71.12mm)*
Battery Type: *Uses profiler's battery pack*
Channel/Frequency: *15 Selectable Channels 913.0 - 920.0 MHz*
Modulation: *Narrow Band Frequency Modulation*
Deviation: *30 kHz peak to peak*
Output Power: *-3dbm (equivalent to 0.5 microwatts)*
Antenna Connector: *MCS Series RF Coaxial*
FCC approved: *Type accepted per Part 15C*

RF Receiver

Physical Dimensions: *6.15" x 5.3" x 1.15" (156.2 x 134.6mm x 29,21mm*
Power Supply: *9 volts, 120 mA wall transformer*
Channel/Frequency: *Same as transmitter*
RF Architecture: *Two identical dual conversion Superheterodyne*
Sensitivity: *105 dbm*
Signal Strength Readout: *Two green-yellow-red LED bars*
PC Interface: *RS-232 (4-pin Header), 9600 Baud*
FCC approved as required by Part 15B

RF Antennas

Transmitting: *One Inconel of dimensions to match thermal barrier*
Receiving: *Two Yagis 6 dbd, 10 dbd optional*

Software Specifications

SourceTrak™ Software

SourceTrak™ Software for Windows™:
Graphic and Intuitive User Interface, Modeling, Analysis, and Reporting application
Windows 3.xx, Win 95, and NT 4.0 Compatible
REAL-TIME RF Features:
View live on-screen process performance
Process Alarm Points *(Up to three) with editable operator action messages*
Auto-update scaling of X & Y axis
Time-of-Day *X-axis units*
INDATA™ Internal temperature display
Greater Measurement Range *Choice of K or S-Type Thermocouples*
Static or Conveyorized Furnace Modeling *Zones as Time or Distance*
Prediction *Alter furnace model parameters for comprehensive what-if analysis*
3-D View *with reversed angle perspective*
File Cloning *saves repetitive data entry*
Overlay *Compares current data with a reference curve*
Tolerance Band *Graphically documents your process specification compliance*
Sensors Map *Graphically documents thermocouple locations in a bitmap file*
Cure Index and Time to/above Temperature Analysis
Multiple File Viewer/Selector *Presents thumbnail profiles for profile recall*
Data Options *List raw data or export text file to spreadsheets*
Reports *Custom 1-page color hardcopy*
And Much, Much More!

Your Contact Is:

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