

XDL12 Furnace Survey System

...external data logging from Datapaq®

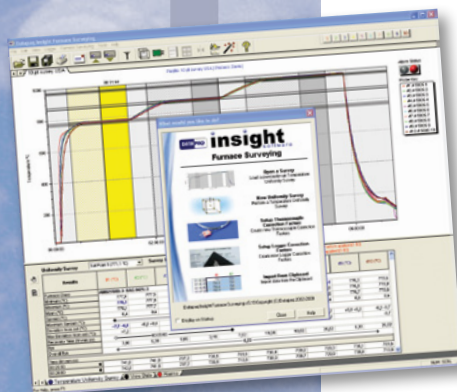
The Datapaq XDL12 Furnace Survey System provides the complete solution for performing temperature uniformity surveys in batch and vacuum furnaces where external data collection is desirable.

When combined with powerful Insight™ Survey analysis software, the XDL12 ensures that temperature uniformity surveys required by AMS 2750E standards are achieved quickly and accurately.



FEATURES & BENEFITS

- Choose the thermocouple types required for your application and Datapaq will pre-configure all 12 channels to meet your exact needs.
- Thermocouple sockets are color coded to IEEE specification, eliminating mistakes with setup and saving technicians valuable time.
- Accepts standard thermocouple plugs to give a positive and reliable connection (no screw connections), reducing the risk of survey failures and expensive furnace downtime.
- Accurate and reliable, the XDL12 meets or exceeds AMS 2750E specification requirements for field test instruments.
- Quality build guaranteed. The XDL12's robust casing is constructed of high grade stainless steel and is completely sealed from dust to IP50 specification.
- With a rechargeable battery for up to 60 hours of use, there is no need to rely on a main power input.
- Fully portable, set up the XDL12 wherever it is most convenient for you.
- When combined with the laptop stand, the XDL12 takes up little workspace area.
- Only a start/stop button operation ensures ease of use. All other operations are via the PC, using Datapaq Insight Survey analysis software.
- Data accuracy guaranteed. The XDL12 is fully protected from outside interferences.
- Clear, easy to read LEDs show logger status at all times.



INSIGHT SURVEY ANALYSIS SOFTWARE

- Dedicated survey software with comprehensive set-up wizards, analysis functions and report layouts.
- One single software package for TUS (Temperature Uniformity Survey) set up, thermocouple and logger calibration correction factors, and AMS 2750E report generation. No further software modules required.
- Provides complete AMS 2750E documentation.
- Stores, recalls and applies all thermocouple and logger calibration details.
- Displays tolerances and set points in real-time.
- Alerts for stabilization, survey time and overshoot alarm means survey time is minimized and production time is maximized.
- Automatically performs all the required AMS 2750E calculations.

TECHNICAL SPECIFICATIONS



Part Number	XD0012
Number of Channels	12 channels, sockets will accept standard size thermocouple plugs
LEDs	2 x battery (low and charging) 2 x status
Thermocouple Combinations	Combination of 3 types Examples: 10 type N + 2 type S. 9 type K + 3 type R, etc. Specify at time of ordering

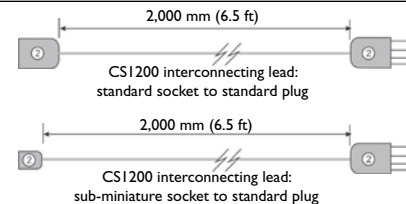
Thermocouple Type	Measuring Range	Accuracy	Resolution
Type K	-100°C* to 1370°C (-148°F* to 2498°F)	± 0.3°C (± 0.5°F)	0.1°C (0.2°F)
Type N	-100°C* to 1300°C (-148°F* to 2370°F)	± 0.4°C (± 0.7°F)	0.1°C (0.2°F)
Type R	50°C* to 1760°C (122°F* to 3200°F)	± 1.1°C (± 2.0°F)	0.1°C (0.2°F)
Type S	50°C* to 1760°C (122°F* to 3200°F)	± 1.1°C (± 2.0°F)	0.1°C (0.2°F)
Type J	0°C to 800°C (32°F to 1470°F)	± 0.3°C (± 0.5°F)	0.1°C (0.2°F)
Type T	-100°C* to 400°C (-148°F* to 750°F)	± 0.3°C (± 0.5°F)	0.1°C (0.2°F)

Maximum operating temperature range	0°C to 55°C (32°F to 130°F)
Humidity operating range	0 to 85% RH non-condensing
Battery type	NiMH Re-chargeable
Battery life	60 hours
Power input	12V DC from universal 100/230V AC
Communication	Via USB
Sampling interval range	One second to 50 minutes
Case size	Height (without computer rest) = 60mm (2.36 in) Height (with computer rest) = 80mm (3.15 in) Width (overall) = 330mm (13.0 in) Depth (including handle) = 340mm (13.4 in)
Weight	6.5kg (14.3lbs)
Case IP rating	IP50
Logger start	Manual (start button); Time; Temperature Trigger (rise/fall) on any thermocouple
Insight software	V6.0 and above
Hot data protection	Non-volatile memory and software warning if reset attempted before download
Telemetry	Hard wired only

Interconnecting leads

Interconnecting leads connect between the plug on the vacuum furnace and the data logger.

Leads are available in all types of thermocouples.



The Worldwide Leader in Temperature Profiling



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