



**PhoenixTM**  
Phoenix Temperature Measurement

*Where experience counts!!*



## PhoenixTM 1200 Series High Temperature Data Loggers for use in Standard or Evaporative Thermal Barriers

PhoenixTM Data Loggers are designed for use in industrial processes. At PhoenixTM we believe that Data Loggers for thermal profiling and surveying must be built to operate in the harshest environments while maintaining accuracy throughout their operating temperature range. PhoenixTM Data Loggers include these key features:

- A tough, lightweight, machined aluminium case providing mechanical and **waterproof** protection.
- Meets and exceeds all the requirements of AMS2750 (latest version), and CQI-9.
- Internal cold junction compensation with feedback error detection and noise reduction, which ensures accurate and reliable data over the operating range of the data logger.
- Optional two way RF telemetry. Allowing the data logger to be reset and downloaded via RF. Two way telemetry also allows for data catch up if process conditions such as a water quench temporarily interrupts the signal. Additionally this allows for an analysis window to be opened mid process and for full process details to be analysed.
- Multiple data loggers can be monitored on the same PC when working in real time.
- Bluetooth capability to allow wireless logger connection for download and reset.
- Data logger calibration correction factors can be stored in memory after authorized calibration and uploaded to the analysis software. A signed PDF copy of the certificate of calibration can also be downloaded from the data logger and printed for AMS2750 TUS and CQI-9 requirements.
- Operates in furnace conditions which may include high ambient temperature, humidity, vacuum, & high pressure. As an extra safety feature, in T6 aluminum processes where a quench is involved, the logger is able to withstand full immersion in water.
- 6, 10 and 20 channel versions with mixed thermocouple combinations available.



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**PHOENIXTM Data Loggers PTM1200 Series**



**Technical details common to both standard and high operating temperature data logger types:**

Data logger model number:	PTM1-206-Sigma (&HT)	PTM1-206 (&HT)	PTM1-210 (&HT)	PTM1-220 (&HT)
No. of channels:	6	6	10	20
Resolution:	0.2°F			
Memory total (Non Volatile Memory):	Up to 3.8 million data points			
Sampling interval:	From 0.2s to 1 hour (minimum 1.0 s when RF or USB telemetry used)			
Logger start by:	Date & Time, Temperature, Start Button or Software (RF Telemetry if supplied)			
Real time data transmission*:	Via USB cable & Bluetooth as standard, via 2 way RF telemetry optional			
Bluetooth:	V2.1 SPP Compatible with Windows PC's and Android tablets / phones. Range 33 feet.			
Physical dimensions:	PTM1-206-Sigma		PTM1-206 / 210 / 220	
Length:	7.87"		7.87"	
Width:	2.75"		3.85"	
Height:	0.79"		0.79"	
Weight:	1.1lb		1.5lb	

**Technical details standard operating temperature data loggers (types K, N, T, J):**

For 'heat sink' models. Model number:	PTM1-206-Sigma	PTM1-206	PTM1-210	PTM1-220
Operating temperature standard logger:	32°F to +176°F maximum			
Battery type standard logger:	2 x 'AA' Alkaline replaceable batteries			
Battery life standard logger:	Up to 1000 hours (Depending on operating temperature, telemetry use, & sampling interval)			
Sealing standard logger:	IP60			
Thermocouple types supported:	K / N	T	J	
Measuring range:	-148°F to +2498°F (K) -148°F to +2372°F (N)	-328°F to +707°F (T)	32°F to +1832°F (J)	
Accuracy:	±0.5°F	±0.5°F	±0.5°F	

**Technical details high operating temperature (HT) data loggers (types K, N, R, S, B):**

For 'Evaporative' thermal barriers. Model #:	PTM1-206-Sigma-HT	PTM1-206-HT	PTM1-210-HT	PTM1-220-HT
Operating temperature HT logger:	+230°F maximum			
Battery type HT logger:	2 x 'AA' size lithium replaceable batteries			
Battery life HT logger:	Up to 1000 hours (Depending on operating temperature, telemetry use, & sampling interval)			
Sealing HT logger:	PTM1-206-HT, PTM1-210-HT = <b>IP67</b> . PTM1-206-Sigma-HT, PTM1-220-HT = <b>IP65</b>			
Thermocouple types supported:	K / N	R / S	B	
Measuring range:	-148°F to +2498°F (K) -148°F to +2372°F (N)	32°F to +3200°F (R) 32°F to +3200°F (S)	122°F to +3299°F (B)	
Accuracy:	±0.5°F	±1.3°F	+/- 5.5°F at +750°F +/- 1.8°F at +2730°F	

\* RF only available with the following software: Thermal View Finishing, Thermal View Plus, Thermal View Survey, and Thermal View for Food Processing  
Note: As products are continually improved, specifications may be changed without prior notice.

Represented by:



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