

HH-4208SD 12 Channel Thermocouple Data Logger (SD card)

Accepts Thermocouple Types K, J, T, E, R, S

Twelve channel hand-held indicator/data logger with a large, easy-to-read, backlit LCD display (82mm x 61mm). Selectable between Thermocouple inputs K, J, T, E, R and S. Save up to 12 different temperature measurements concurrently with date and time information (year, date, minutes, seconds) and selectable sampling rate (automatic or manual: 1 second to 1 hour).

The HH-4208SD incorporates a page-select function and is capable of showing up to 8 channel readings on the screen at one time (CH1 to CH8 or CH9 to CH12). Data can be logged in two ways:

Software: Data can be logged in real-time using the optional Data Acquisition software* (HH-4208SW) with the unit connected to a PC via the USB or RS-232 cables*. Data is saved to the computer in .mdb (Microsoft® Access) database format which can then be imported into Microsoft® Excel.

SD Card: A 4GB SD memory card is supplied for storage of logged data without the need for additional software. Data is saved to the card in .xlsx (Microsoft® Excel 2007 onwards) format. The card can then be plugged into a reader to retrieve the data. The SD card cannot be used with the Data Acquisition software.

The HH-4208SD is powered via 8 AA batteries or the optional mains power adaptor and features an integrated stand, enclosed within a rubber protective case. Supplied with a 4GB SD card (max 16GB), instruction manual and carry case.

- 12 selectable Thermocouple input channels (T1-T12)
- Large, backlit LCD display (82mm x 61mm)
- °C / °F selectable, Min, Max, Data hold, over range indication
- Auto power off / low battery indicator
- Offset adjustment / linear compensation
- Selectable sampling rate (1 to 3600 seconds)
- Supplied with 4GB SD memory card, instruction manual and carry case
- Optional power adaptor, software, USB cable and RS-232 cable available



Top view (12 x thermocouple inputs)



Supplied with 4GB SD card



order code HH-4208SD

| Technical Details | |
|---------------------------------|--|
| Input (miniature plug) * | 12 x Thermocouple |
| Sample Rate | Automatic or manual (1 second to 1 hour) |
| Display | Large backlit LCD display (82mm x 61mm) |
| Operating Temperature | 0 to +50°C |
| Operating Humidity | Less than 85 %RH |
| Overload Protection | 30V DC (1 minute), 12V AC (1 minute) |
| Power | 8 x 1.5V AA batteries or AC/DC power adaptor (avail. separately) |
| Dimensions | 220mm (H) x 130mm (W) x 64mm (D) |
| Weight | 948g approx. (including batteries) |

| | °C | | | °F | | |
|----------|------------------|------------|-----------------|------------------|------------|-----------------|
| | Range | Resolution | Accuracy** | Range | Resolution | Accuracy** |
| K | -50.1 to -100°C | 0.1°C | ±(0.4% + 1°C) | -58.1 to -148°F | 0.1°F | ±(0.4% + 1.8°F) |
| | -50 to +999.9°C | 0.1°C | ±(0.4% + 0.5°C) | -58 to +999.9°F | 0.1°F | ±(0.4% + 1°F) |
| | +1000 to +1300°C | 1°C | ±(0.4% + 1°C) | +1000 to +2372°F | 1°F | ±(0.4% + 2°F) |
| J | -50.1 to -100°C | 0.1°C | ±(0.4% + 1°C) | -58.1 to -148°F | 0.1°F | ±(0.4% + 1.8°F) |
| | -50 to +999.9°C | 0.1°C | ±(0.4% + 0.5°C) | -58 to +999.9°F | 0.1°F | ±(0.4% + 1°F) |
| | +1000 to +1150°C | 1°C | ±(0.4% + 1°C) | +1000 to +2102°F | 1°F | ±(0.4% + 2°F) |
| T | -50.1 to -100°C | 0.1°C | ±(0.4% + 1°C) | -58.1 to -148°F | 0.1°F | ±(0.4% + 1.8°F) |
| | -50 to +400°C | 0.1°C | ±(0.4% + 0.5°C) | -58 to +752°F | 0.1°F | ±(0.4% + 1°F) |
| E | -50.1 to -100°C | 0.1°C | ±(0.4% + 1°C) | -58.1 to -148°F | 0.1°F | ±(0.4% + 1.8°F) |
| | -50 to +900°C | 0.1°C | ±(0.4% + 0.5°C) | -58 to +999.9°F | 0.1°F | ±(0.4% + 1°F) |
| | - | - | - | +1000 to +1652°F | 1°F | ±(0.4% + 2°F) |
| R | 0 to +1700°C | 1°C | ±(0.5% + 3°C) | +32 to +3092°F | 1°F | ±(0.5% + 5°F) |
| S | 0 to +1500°C | 1°C | ±(0.5% + 3°C) | +32 to +2732°F | 1°F | ±(0.5% + 5°F) |

* Software, USB cable, RS-232 cable and thermocouples not supplied with data logger - available separately
 ** Accuracy stated is for indicator only. The thermocouple sensor inaccuracy should also be considered

Optional Accessories for 12 Channel Thermocouple Data Logger



Power Adaptor
order code HH-4208PAUK



Data Acquisition Software
order code HH-4208SW



USB Cable
order code HH-4208USB



RS-232 Cable
order code HH-4208RS232