Northwood Power Instruments Inc.

QuickSpecs

Current Inrush KeyCard

Record Cycle-by-Cycle True RMS Current and Voltage

Features

- ✓ RMS readings *every cycle* for 3 voltages and 3 currents.
- ✓ Graphical and tabular Data using Data Trend software.
- ✓ Up to 75 seconds of data with a 2M RAM card.
- ✓ Display peak inrush and voltage on the logger LCD !
- ✓ Trigger on current threshold, or via external AC trigger input.

Applications

- ✓ Motor Maintenance and Troubleshooting
- ✓ Transformer Energizing
- ✓ Load Characterization
- ✓ Use anywhere where you need high resolution RMS data on voltage and or current phenomena.

The Current Inrush KeyCard from Northwood Power Instruments is ideal for getting an accurate picture of your entire motor electrical system. Quickly identify motors whose current consumption characteristics have changed. Also identify motor related problems caused by low incoming voltage. Discover if you have a "weak" or "stiff" buss voltage. Set everything up in just a few minutes !

Current Inrush KeyCard Specifications		
Number of Channels		3 voltage, 3 current, 1 external AC voltage trigger (*trigger channel is not logged*).
Measurements		RMS voltage and current for each channel.
Ranges	Voltage	240/600 VAC + 25% Over-Range
	Current	1 VAC Fixed Range (5A - 3000A Clamps Available)
	Frequency	50 or 60 Hz., specified when initialising logger.
CT/PT Ratios		Adjustable to 50,000:1
Accuracy	Voltage	± ½% rdg. ±1 LSD
	Current	± ½% rdg. ±1 LSD (Plus Clamp Error)
Sample Rate		32 samples per cycle per channel (*sampling is continuous over storage period*).
Memory		RAM Card Storage up to 2 Mbytes.
Storage Capacity		See Reverse
Memory Treatment		Single Shot (*all memory is consumed after triggering*).
Trigger Method		Storage is triggered by current level or external AC voltage. Both triggers are active at all times. Current trigger can be adjusted from 5% to 100% of full scale. External AC trigger voltage is 12 VAC. Input can safely handle voltages up to 750 VAC.
Display		2x20 Characters, Alphanumeric
Communications		USB, RS-232 9600 Baud and/or via PCMCIA port.
Software Requirements		Data Trend for Windows, minimum of 4 Mb RAM, Windows 32Bits, 4 Mb of hard disk space, VGA display, mouse

Specifications subject to change without notice

Throw out your chart recorder !

Northwood's Current Inrush Keycard delivers high resolution cycle-by-cycle RMS data using your InterLogger.

Flexible Triggering:

Recording is triggered by a user specified current threshold, or an external AC trigger voltage. After setting the threshold, the computer is continually acquiring data, waiting for the trigger condition to occur.

High Resolution Data:

After triggering, the InterLogger begins storing all acquired data. The amount of data stored depends on the size of SRAM card installed in the InterLogger:

Card Size	Total Storage Time for 60 Hz.	Total Storage Time for 50 Hz.
256K RAM	6.1 seconds (366 cycles) max.	7.3 seconds (366 cycles) max.
512K RAM	15.1 seconds (906 cycles) max.	18.1 seconds (906 cycles) max.
1M RAM	35.1 seconds (2106 cycles) max.	42.1 seconds (2106 cycles) max.
2M RAM	75.1 seconds (4206 cycles) max.	84.1 seconds (4206 cycles) max.

Six cycles of pre-trigger data are always stored, so you can see exactly what happened just before triggering.

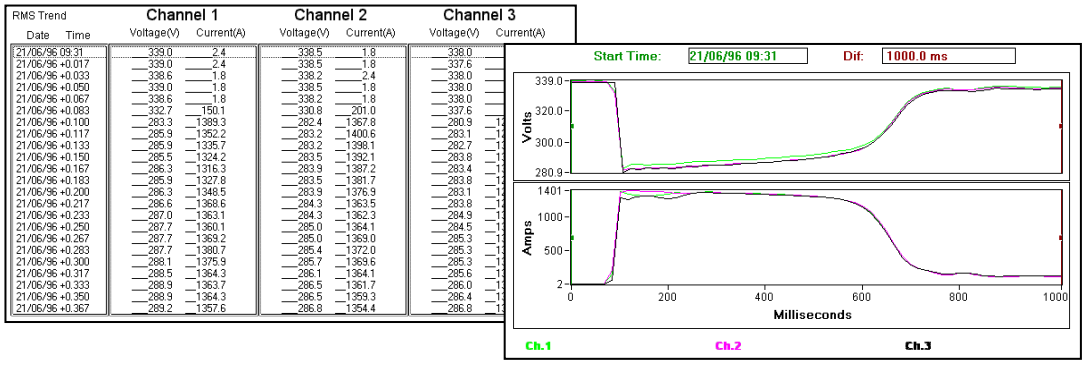
Stand-alone Functions

The Current Inrush KeyCard can be used as a stand-alone instrument, or in conjunction with Data Trend software. In stand alone mode, The InterLogger can provide you with a wealth of information:

122.5a 86.3v 34.5 sec after trig	⇦ *Maximum inrush current* ⇦ *Time of maximum current* ⇦ *Voltage at the time of maximum current*
LENGTH OF INRUSH 52.3 SEC	⇦ *Length of inrush*
INRUSH TRIGGERED AT Sat Apr 12/98 23:16	⇦ *Time of trigger*

Data Trend Software

All of the recorded data can be downloaded and stored using Data Trend software. Get graphical and tabular reports of all recorded data.



Ordering Information

Description	Order Code
InterLogger Current Inrush KeyCard *Includes instruction manual*	MC08

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