

3001 Data Logging and Calibration Software

Calibration Software



The purpose of the Model 3001 software is to provide easy to use and accurate temperature measurement, Data Logging and automated temperature calibration.

It also provides easy PC operation for the control of instrument/digital thermometers using resistance thermometers or thermocouples and a range of temperature-controlled sources (liquid baths, metal block calibrators and furnaces).

Many temperature points in a temperature source can be automatically selected and measured and

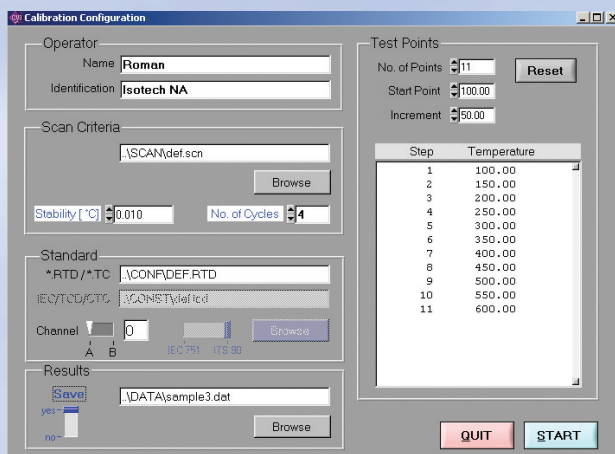
both referenced and unknown test probes can be scanned at many temperature points in the temperature source.

The software also enables the complete calibration routine results at several temperature points to be downloaded to a report writer and also provides a graphical plot section incorporating flexible features such as recording and referencing any channel on the system.

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Calibration Configuration

Operator
Name:
Identification:

Scan Criteria
Scan File:
Stability [°C]: No. of Cycles:

Standard
*RTD /*TC:
IEC/TCB/CTC:
Channel:
A B IEC 781 ITS 80

Results
Save:
yes ☐ no ☐
File:

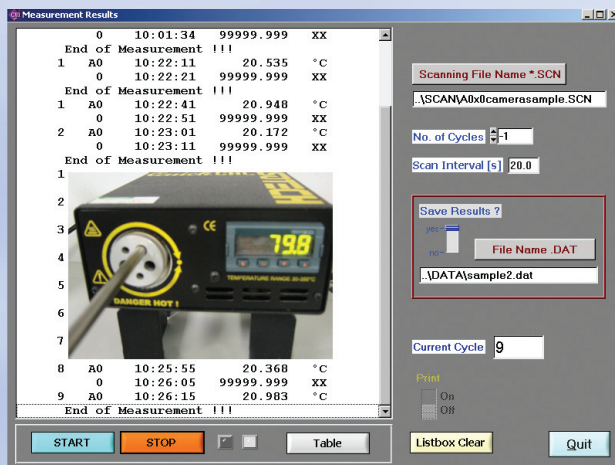
Test Points
No. of Points:
Start Point:
Increment:

Step	Temperature
1	100.00
2	150.00
3	200.00
4	250.00
5	300.00
6	350.00
7	400.00
8	450.00
9	500.00
10	550.00
11	600.00

Key Features:

- ▶ Scanning routine of a number of channels/probes
- ▶ Virtual calibration channels (digital camera, manual entry, data from different instruments)
- ▶ Reference probe calibration data entry for absolute measurement to ITS-90 on reference probe channels
- ▶ Controls temperature source at test point and records values of channels as required for one or more sets of readings
- ▶ A standard data logging and measurement routine for a number of probes on the instrument scanner
- ▶ A graphical plot section with flexible features to record any channel on the system, including the digital data points plotted
- ▶ A Data Logger section to download the data recorded on the instruments internal memory for use on external "field/site" applications

The Model 3001 is suitable for all high precision applications in temperature laboratories and other industrial applications where temperature calibrations are needed.



Measurement Results

	Time	Value	MIN	MAX
0	10:01:34	99999.999	XX	
End of Measurement	!!!			
1	A0 10:22:11	20.535	°C	
0	10:22:21	99999.999	XX	
End of Measurement	!!!			
1	A0 10:22:41	20.948	°C	
0	10:22:51	99999.999	XX	
2	A0 10:23:01	20.172	°C	
0	10:23:11	99999.999	XX	
End of Measurement	!!!			
1				
2				
3				
4				
5				
6				
7				
8	A0 10:25:55	20.368	°C	
0	10:26:05	99999.999	XX	
9	A0 10:26:15	20.983	°C	
End of Measurement	!!!			

Scanning File Name * SCN:
No. of Cycles:
Scan Interval [s]:
Save Results? ☐ yes ☐ no
File Name - DAT:
Current Cycle:
Print: ☐ On ☐ Off



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