

Coefficients and Residuals

Results of Coefficient Calculations:

These are the results of the coefficient calculations for test probe model 5614 serial number 76854:

Coefficients:

RTPW = 25.548796

a[4] = 5.96059822 E-05
b[4] = 5.65325669 E-04

a[8] = -1.38106347 E-03
b[8] = 1.36528030 E-03

Set-points and Residuals:

Low Range:
-90.10000°C -0.00009°C
-38.83400°C 0.00007°C

High Range:
156.59900°C 0.00002°C
231.92800°C 0.00007°C

Buttons: Export, Print Report, Table Options, Back, Close, Help

Report for ITS-90 Coefficients

Probe Model: 5614
Probe Serial: 568497
Date: October 17, 1997

TPW:
Reference (°C) UUT (Ohms) Residual (°C)
0.0029 99.9878 N/A

Low Range:
Reference (°C) UUT (Ohms) Residual (°C)
-197.0500 18.2781 0.0000
-38.8030 84.4268 0.0001

High Range:
Reference (°C) UUT (Ohms) Residual (°C)
156.6700 160.9680 0.0059
231.9670 189.2410 -0.0058
419.6290 256.8680 0.0010

Coefficients:
RTPW = 99.990632

Low Range:
a4 = -5.13574195 E-04
b4 = -6.46061096 E-05

High Range:
a8 = -5.66675070 E-04
b8 = 2.16238030 E-04

Ordering Information

9933 TableWare Software

| | |
|--|-------------------|
| TableWare | Model 9933 |
| Calculates coefficients for RTDs, thermistors, and thermocouples | |
| Generates three types of temperature tables | |
| Easy-to-use, time-saving interface | |
| Outputs to ASCII text file or printed report | |

Okay, you know about the benefits of our Calibrate-it and Generate-it software, but you didn't order your Hart instruments with RS-232 ports, or maybe you've made the mistake of buying less capable competitor products.

Well, you don't need to be depressed, because we've got something for you, too! Our 9933 TableWare software package

does everything that Generate-it does except automatically collect data from our Calibrate-it program. TableWare is a calculate-and-generate data software package that uses manually entered data. It still saves you time and money on your calculations, so it's a great buy.

TableWare calculates coefficients for RTDs, thermistors, and thermocouples. It uses ITS-90, IPTS-68, Callendar-Van Dusen, and polynomial equations. TableWare also generates temperature versus resistance, temperature versus ratio, and temperature versus EMF tables. And it includes functions for importing and exporting data for use with other data analysis programs.

You simply enter or import the raw resistance or voltage data from your calibrations. TableWare generates coefficients, calculates residual values, and generates useful tables.

Hart's TableWare is reasonably priced and works the way you do.

Input screen showing fields for Reference Temp, UUT, and data tables for Resistance and UUT Resistance.

Input screen.



Read about our calibration training courses on page 152.



Read about our calibration services on page 156.