Intertek

Calibration Date: 3/28/2016 Calibration By: KS Calibration Due: 9/28/2016

Using:
Use Procedure: WI-L-AMER-Cali-994
Description: Model: Delmhorst
Serial: Asset #: 1380/1393

Calibration Block Possition	Block 1 Desired Reading	Meter Reading	Reading Deviation	
12%	8.33	8.45	0.12	Measurement
12%	8.33	8.43	0.10	Uncertainty Block 1
12%	8.33	8.44	0.11	0.134482347
12%	8.33	8.45	0.12	
22%	1.1	1.109	0.01	
22%	1.1	1.1086	0.01	
22%	1.1	1.1091	0.01	
22%	1.1	1.1088	0.01	
		Average Deviation:	0.06	
		Standard Deviation:	0.06	

Calibration Block Possition	Block 2 Desired Reading	Meter Reading	Reading Deviation	
12%	8.33	8.41	0.08	
12%	8.33	8.39	0.06	Measurement
12%	8.33	8.4	0.07	Uncertainty Block 2
12%	8.33	8.4	0.07	0.082316823
22%	1.1	1.0989	0.00	
22%	1.1	1.0992	0.00	
22%	1.1	1.0991	0.00	
22%	1.1	1.0991	0.00	
		Average Deviation:	0.04	
		Standard Deviation:	0.04	

Acceptable range: 7.50 - 9.16 nS for 12% side
Acceptable range: 0.99 - 1.21 MΩ for 22% side
Fluke meter accuracy 0.1

Reviewed by: BC Date: 3/28/16

Measurement Uncertainty is calculated using the following formula:

O.M.U. = k*sqrt $((A.D.)^2 + (S.D.)^2 + (R.M.U./2)^2)$

O.M.U. = Overall Measurement Uncertainty

A.D. = Average Deviation of the difference of all measured results compared to the reference value.

S.D. = Standard Deviation of the difference of all measured results compared to the reference value.

k = Confidence Factor (2 for 95% confidence)

R.M.U. = Standard Measurement Uncertainty of Reference Measurement Equipment. R.M.U. is considered as the measurement uncertainty as stated on calibration certificates of equipment, or the tolerance listed in the calibration standard of the test equipment.