



SPECIFICATION CHANGE ALL DX/D SERIES INSTRUMENTS

Effective immediately, the accuracy of the D501, DX501, D501-RS, and DX501-RS microscanners will change from:

\pm (1% of reading) + (1% of reading less ambient)

to:

\pm (1 + 2% (reading less ambient)) in °F, and \pm (0.6 + 2% (Reading less ambient)) in °C.

The old accuracy table is:

Ambient Temp. (°F) = 72
 Ambient Temp. (°C) = 22.2

Tt (°F)	Allow. Err.		Tt (°C)	Allow. Err
20	0.7		-6.7	0.4
32	0.7		0.0	0.4
40	0.7		4.4	0.4
50	0.7		10.0	0.4
59	0.7		15.0	0.4
68	0.7		20.0	0.4
77	0.8		25.0	0.5
86	1.0		30.0	0.6
95	1.2		35.0	0.7
103	1.3		39.4	0.7
114	1.6		45.6	0.9
123	1.7		50.6	1.0
147	2.2		63.9	1.2
212	3.5		100.0	2.0
230	3.9		110.0	2.2
248	4.2		120.0	2.4
329	5.9		165.0	3.3
387	7.0		197.2	3.9
500	9.3		260.0	5.2
550	10.3		287.8	5.7

The New accuracy table is:

Ambient Temp. (°F) = 72
Ambient Temp. (°C) = 22.2

Tt (°F)	Allow. Err.		Tt (°C)	Allow. Err.
20	2.0		-6.7	1.1
32	1.8		0.0	1.0
40	1.6		4.4	0.9
50	1.4		10.0	0.8
59	1.3		15.0	0.7
68	1.1		20.0	0.6
77	1.1		25.0	0.6
86	1.3		30.0	0.7
95	1.5		35.0	0.8
103	1.6		39.4	0.9
114	1.8		45.6	1.0
123	2.0		50.6	1.1
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248	4.5		120.0	2.5
329	6.1		165.0	3.4
387	7.3		197.2	4.1
500	9.6		260.0	5.3
550	10.6		287.8	5.9
1000	19.6		537.8	10.9
1030	20.2		554.4	11.2

The reason for the change is as follows.

For any IR temperature measurement device it is difficult to pick up small changes in temperature close to and below ambient, and when measuring close to ice point there is difficulty in achieving accuracy that is $< \pm 1$ °F (0.6 °C). So we had to add the 1 °F across the board for that reason. When you reach the higher temperatures, it doesn't make that much of a difference. For example at 212 °F (100 °C), it goes from ± 3.5 °F (2 °C) to 3.8 °F (2.1 °C)

Please email: industrial@exergen.com if you have any questions.