Manual Supplement

Manual Title: TiS10, TiS20, TiS40, TiS45, TiS50, TiS55, TiS60, TiS65 User, Web Only & TiS10, TiS20, TiS40, TiS45, TiS50, TiS55, TiS60, TiS65 Safety Information

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This supplement contains information necessary to ensure the accuracy of the above manual.

FLUKE®

Change #1, Safety Information, 514

Under ***Safety Specifications***, change Altitude:

From: Storage ..... 12,000 m (39,370 ft)

To: Storage ..... 10,000 m (32,808 ft)

Change #1 Users Manual, 514

On page 38, under ***General Specifications,*** change the Altitude Storage:

From: Storage ..... 12,000 m (39,370 ft)

To: Storage ..... 10,000 m (32,808 ft)

On page 40, replace the **Infrared spectral band**, and add the following:

Infrared spectral band ..... 7.5 µm to 14 µm (long wave). See note with Figure A, Figure B, and Table A.
Published specifications are warranted as tested to the following conditions:

- Imager must be calibrated using Fluke 4181 black body source with emissivity set to 1.0.
- Imager must be positioned at a distance of 48 inches (121.9 cm) from the Fluke 4181 source.
- Imager emissivity is set to 1.0.

Note

The effective spectral response for TiS45, TiS55, and TiS65 is shown in Figure A. Use Table A for correcting displayed temperature when emissivity on the Fluke 4181 and the Imager are set to other than 1.0. Figure B is a representation of Table A. Add the value from the table to the measurement on the Imager.

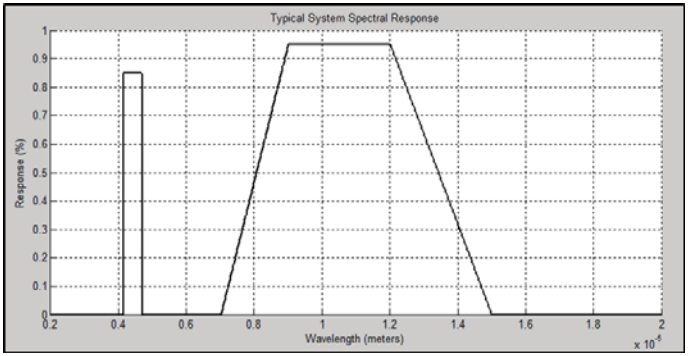

Figure A. TiS45, TiS55, and TiS65 with Manual Lens, Typical Spectral Response

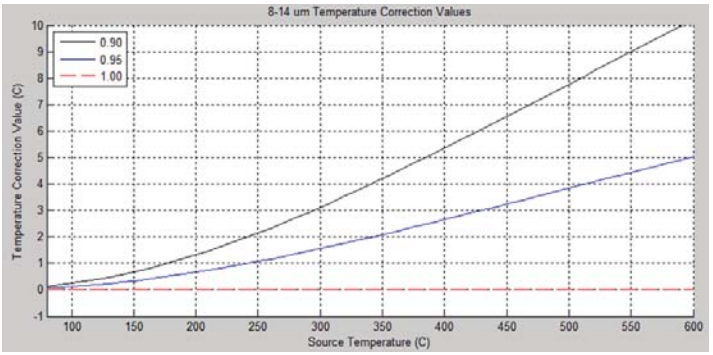

Figure B. TiS45, TiS55, and TiS65 with Manual Lens, Temperature Correction Value

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Table A. Displayed Temperature Correction

Source Temperature (°C)	Imager and Source Emissivity			Source Temperature (°C)	Imager and Source Emissivity			Source Temperature (°C)	Imager and Source Emissivity		
	0.90	0.95	1.00		0.90	0.95	1.00		0.90	0.95	1.00
80	0.13	0.07	0.0	240	1.96	0.98	0.0	400	5.35	2.65	0.00
90	0.18	0.09	0.0	250	2.14	1.07	0.0	410	5.59	2.77	0.00
100	0.24	0.12	0.0	260	2.33	1.16	0.0	420	5.83	2.88	0.00
110	0.31	0.16	0.0	270	2.52	1.25	0.0	430	6.07	3.00	0.00
120	0.39	0.19	0.0	280	2.71	1.35	0.0	440	6.31	3.12	0.00
130	0.47	0.24	0.0	290	2.91	1.45	0.0	450	6.55	3.24	0.00
140	0.57	0.28	0.0	300	3.12	1.55	0.0	460	6.79	3.36	0.00
150	0.67	0.34	0.0	310	3.33	1.66	0.0	470	7.03	3.48	0.00
160	0.78	0.39	0.0	320	3.54	1.76	0.0	480	7.27	3.59	0.00
170	0.90	0.45	0.0	330	3.76	1.87	0.0	490	7.52	3.71	0.00
180	1.03	0.52	0.0	340	3.98	1.98	0.0	500	7.76	3.83	0.00
190	1.17	0.58	0.0	350	4.20	2.09	0.0	_	_	_	_
200	1.32	0.66	0.0	360	4.43	2.20	0.0	_	_	_	_
210	1.47	0.73	0.0	370	4.65	2.31	0.0	_	_	_	_
220	1.63	0.81	0.0	380	4.89	2.42	0.00	_	_	_	_
230	1.79	0.89	0.0	390	5.12	2.54	0.00	_	_	_	_