

Validation Certificate

3M™ Temperature Logger TL20V

3M certifies that the temperature loggers listed below have been previously calibrated for temperature in an ISO/IEC 17025 accredited laboratory, 3M Corporate Metrology Services, Certificate No. 2218.01, American Association for Laboratory Accreditation (A2LA), as reported in this summary table:

Temperature Accuracy Specifications: +/- .5°C from -20° to 30°C, +/- 1°C from 30° to 60°C								
TL20V ID#	Set Point -10°C		Set Point 10°C		Set Point 50°C		Pass/Fail	Date
	Standard	TL20V	Standard	TL20V	Standard	TL20V		
TL.AAA12345	-9.00	-9.9	10.30	10.3	50.00	50.0	PASS	2007-07-16
TL.AAA12346	-9.88	-9.9	10.30	10.3	50.00	50.0	PASS	2007-07-16
TL.AAA12347	-9.88	-9.6	10.30	10.6	50.00	50.2	PASS	2007-07-16
TL.AAA12348	-9.00	-10.1	10.30	10.2	50.00	50.3	PASS	2007-07-16
TL.AAA12349	-9.88	-9.9	10.30	10.4	50.00	50.5	PASS	2007-07-16
TL.AAA12340	-9.88	-9.8	10.30	10.4	50.00	49.9	PASS	2007-07-16
TL.AAA12341	-9.00	-9.7	10.30	10.5	50.00	50.0	PASS	2007-07-16
TL.AAA12341	-9.88	-9.8	10.30	10.4	50.00	50.1	PASS	2007-07-16
TL.AAA12342	-9.88	-9.8	10.30	10.4	50.00	50.2	PASS	2007-07-16
TL.AAA12343	-9.00	-9.0	10.30	10.3	50.00	50.1	PASS	2007-07-16

3M recommends that the user follows the Standard Operating Procedure that calls for the replacement of these devices at least 12 months after the verification date reported on the 3M™ Temperature Logger TL20V.

Standards used in this calibration, described in the referenced calibration procedure with associated uncertainties or tolerances, are traceable to the National Institute of Standards and Technology or other accepted national standard, or derived from natural physical constants or from ratio measurements. The results relate only to the items identified in this Certificate of calibration. Reported uncertainties and/or test uncertainty ratios (TUR) are expressed as expanded uncertainty values at approximately 95% confidence level using a coverage factor of K=2. For measurement results associated with conformance to a tolerance, the TUR of 4 to 1 is routinely observed unless otherwise noted on this certificate. This calibration system is in accordance with the requirements of the current revisions of ISO9001 and ISO/IEC 17025.

