HYGROHOOD

The Tramex Hygrohood is an insulated relative humidity hood used in conjunction with the Tramex CMEX5, Feedback Datalogger DL-RHTX or CMEX II and Hygro-i2 ® probes for non-destructive relative humidity testing of concrete and other floors and screeds to international standards BS8201, BS8203 and BS5325.

Product Order Code: RHIH

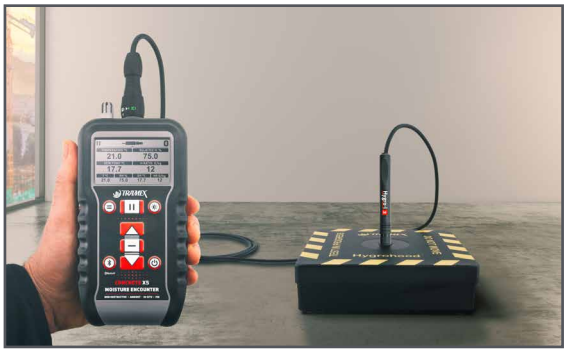
FEATURES

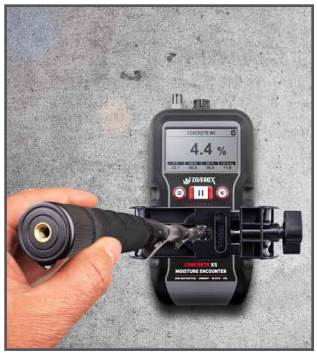
NON-DESTRUCTIVE

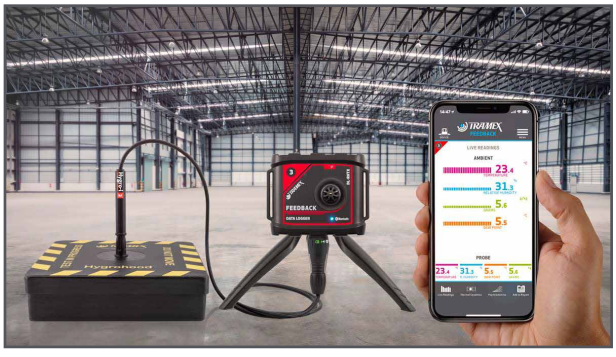
BS 8201

BS 8203

BS 5325







MANUFACTURERS OR NATIONAL STANDARD RECOMMENDATIONS

British Standards code of practice BS8201, BS8203, BS5325 suggest that a concrete floor or screed should be sufficiently dry to allow installation of a resilient floor covering and tested using the insulated impermeable hood method. Non-destructive moisture content tests with the Tramex CMEX5, Feedback Datalogger DL-RHTX or CMEX II can be carried out until the floor or screed reaches the moisture level specified by the floor-covering manufacturer. The Tramex CMEX5, CME5 or CMEX II can be used to determine the areas of greatest concern on the floor or screed. At that stage relative humidity tests using the Hygrohood, CMEX5, DL-RHTX or CMEX II and Hygro-i2® relative humidity probe can be implemented to corroborate the non-destructive moisture content test.

PRE-TEST CONDITIONING AND PREPARATION

For best and most accurate results, tests should be carried out after the internal conditions of the building in which the slab is located have been at normal service temperature and humidity for at least 48 hours. All artificial heating or drying equipment should be turned off at least 96 hours before final readings are attempted, otherwise results may not accurately reflect the amount of moisture present or moisture movement in the slab during normal operating conditions. Avoid testing in locations subject to direct sunlight or sources of heat. Use of artificial aids for accelerated drying of concrete is not recommended. If they are being used it is recommended they should be turned off at least four days before taking final readings. It is advantageous to know the background of the site e.g. when the floor or screed was poured, thickness levels, etc.

TESTING

1. Before positioning the Hygrohood on the floor slab, the surface should be clear of any foreign materials and swept clean of any dust or loose materials that could affect a proper seal between the hood and the surface of the floor.
2. Using butyl tape, seal the insulated Hood to the concrete surface.
3. Insert the Hygro-i2 probe into the hood using the insertion retrieval tool. Please refer to the period of time as specified by the standard being followed for the duration of test. The user should always refer to national standard guidelines for definitive and current procedures and specifications.
4. When the time period has elapsed, check that meter readings do not drift by more than 1% RH over a 5 min period. Ensure the readings correspond with the floor covering/adhesive manufacturers or national standard recommendations before applying floor covering.

HYGRO-i2 SPECIFICATIONS

RELATIVE HUMIDITY SENSOR SPECIFICATIONS:	
Range:	0 to 100%RH
Accuracy:	0% to 99%RH ±2.0%RH (@ 25°C (77°F))
Resolution:	0.1% over the complete range
Drift:	<0.25%RH per year

NIST traceable. (National Institute of Standards and Technology)

TEMPERATURE SENSOR SPECIFICATIONS:	
Range:	-40°C to 125°C (-40°F to 257°F)
Accuracy:	±0.1 °C Range 20°C to 60°C
	±0.1°F Range 68°F to 140°F)
Sensor Protection:	PTFE Film protects sensor opening from water & dust
Drift:	<0.03°C (0.04°F) per year

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