

Dust and Water Intrusion Tests

Prepared for: Bosch Communications Systems 12000 Portland Ave S. Burnsville, MN 55337 Attention: Mr. Bill Gelow	Test Dates
	Start: 6/11/2009 Completion: 6/12/2009
	Environ Test Number: 40471-2-4
	Purchase Order Number: 404608 Purchase Date: 5/27/2009

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Environ Laboratories LLC certifies that five Outdoor Speakers were subjected to the Dust test in accordance with IEC 60529, IP5X Category 2, and IP 3X, and the Water Intrusion test in accordance with IEC 60529 IPX4 and IPX5, as requested by Bosch Communication Systems.

Manufacturer	Bosch Communication Systems
Device	Outdoor Speakers
Model/Part Number	See Below
Serial Number	See Below

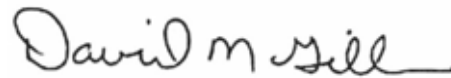
The results of this test apply only to the units identified in this Engineering Report by device identifier and model / part number, or serial number.

Part Number	Description
301523008	ZX5-60PIW (IP55)
11053176	SX300PIW (IP55)
302061501	XLCI127DVX (IP55)
301047004	Evid 6.2T (IP34)
PRD000199004	EVF-1122S PIW (IP55)

The test units met the requirements of the Dust test IEC 60529, IP5X Category 2, and IP 3X, and Water Intrusion test IEC 60529 IPX4 and IPX5. The test units were returned to the customer.



Sergei L. Bazhgin, Test Engineer



David M. Gillen, Vice President

Instrumentation

All instrumentation is calibrated regularly by instruments directly traceable to the National Institute of Standards and Technology, and in accordance with *MIL-I-45208A*, *ANSI/NCSL Z540.3-2006*, and *ISO/IEC 17025: 2005*.

Equipment Number	Description	Manufacturer	Model Number	Last Calibration	Due Calibration	Range
186-004AQ	Talc	Mineral and Pigment Solutions	Talc #399	N/A	N/A	See Certificate of Analysis
400-044	Stopwatch	Extech Instruments	365510	11/14/2008	11/14/2009	0 to 23 hrs 59 mins 59 sec
717-053	Flowmeter	Omega Instruments	FL-75B	8/20/2008	8/20/2009	1 to 10.3 GPM
740-045	Force Gauge	Ametek	ML-4800-2	12/5/2008	12/5/2009	0 to 100 lbs.
770-024	Micrometer	L.S. Starrett	216	8/4/2008	8/4/2009	0 to 1 Inch
770-049	Measuring Tape	Lufkin	HW226	8/6/2008	8/6/2009	0 to 100 Feet