

U.S. Census Bureau
Meters and Test Devices - 2009
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Table 1. Value of Shipments of Meters and Test Devices: 2009 to 2005
[Millions of dollars]

Product class code	Product description	Year		Value
3345141	Integrating and totalizing meters for gas and liquids	2009		2,092.4
		2008		2,314.1
		2007		2,123.6
		2006		1,584.8
		2005		1,449.4
3345143	Counting devices	2009		577.6
		2008		579.7
		2007	a/	576.3
		2006		533.6
		2005		475.6
3345151	Integrating instruments, electrical	2009		(S)
		2008	c/	1,087.5
		2007	b/	962.9
		2006		872.1
		2005		601.6
3345154	Equipment for testing electrical, radio and communication circuits, and motors	2009	a/	5,896.1
		2008		8,033.3
		2007		8,736.4
		2006		9,390.7
		2005		9,226.5
3345155	Instruments to measure electricity	2009	b/	220.7
		2008	b/	336.1
		2007	a/	318.5
		2006		407.5
		2005		406.7
3345194	Physical properties and kinematic testing equipment	2009	a/	1,754.2
		2008	b/	2,079.1
		2007		2,130.1
		2006		1,906.9
		2005		1,801.4
3345195	Nuclear radiation detection and monitoring instruments	2009	a/	762.7
		2008	c/	898.8
		2007		842.9
		2006		635.2

		2005		601.2
3345197	Commercial, geophysical, meteorological, and general purpose instruments	2009	c/	2,039.5
		2008	b/	2,591.7
		2007		2,315.6
		2006		1,864.0
		2005		1,596.8

Table 2. Value of Shipments of Meters and Test Devices: 2009 and 2008
[Value in thousands of dollars]

Product code	Product description	Year	No. of cos.	Value
3345141	Integrating and totalizing meters for gas and liquids	2009 2008	(X)	2,092,411 2,314,108
3345141108	Gas meters, consumption registering	2009 2008	12	327,562 382,545
3345141116	Liquid meters, positive displacement with registers and counters	2009 2008	25 a/	1,328,741 1,393,999
3345141119	Parts, components, and accessories for gas and liquid meters, sold separately	2009 2008	23	436,108 537,564
3345143	Counting devices, excluding motor vehicle instruments	2009 2008	(X)	577,585 579,679
3345143104	Mechanical, electrical, and electronic input counting devices	2009 2008	32	205,436 211,311
3345143108	All other counting devices, including parts (toll meters, fare collection equipment systems, parking lot systems, taximeters, parking meters, etc.)	2009 2008	16	372,149 368,368
3345151	Integrating instruments, electrical	2009 2008	(X) c/	(S) 1,087,540
3345151104	A.C. watt meters	2009 2008	7	(S) (S)
3345151105	Demand meters	2009 2008	11 c/ b/	384,813 410,696
3345151107	Other electrical integrating meters	2009 2008	12	(S) (S)
3345151109	Parts and accessories for integrating meters	2009 2008	9 a/	74,782 (S)
3345154	Equipment for testing electrical, radio and communication circuits, and motors	2009 2008	(X) a/	5,896,094 8,033,251
3345154102	Voltage, current, and resistance measuring equipment	2009 2008	42 a/ r/	445,448 509,974
3345154111	Multimeters	2009 2008	9	70,970 109,814
3345154114	Power and energy measuring equipment	2009 2008	15	68,037 85,862
3345154126	Waveform measuring and/or analyzing equipment, including oscilloscopes and spectrum analyzers	2009 2008	26	911,137 1,223,761
3345154136	Signal generating equipment	2009 2008	24 c/ a/	145,472 174,934

3345154141	Field strength and intensity measuring equipment	2009 2008	13	c/	85,603 (S)
3345154149	Automatic test and measuring equipment: Combination and/or group test sets	2009 2008	34		1,068,561 1,435,204
3345154153	Automatic test and measuring equipment: Component part test sets: Semiconductor component test equipment: Memory	2009 2008	5	r/	(S) 25,186
3345154157	Automatic test and measuring equipment: Component part test sets: Semiconductor component test equipment: Microprocessor	2009 2008	9	a/	235,444 488,214
3345154159	Automatic test and measuring equipment: Component part test sets: Semiconductor component test equipment: Other semiconductor component test equipment	2009 2008	17	a/	686,471 1,227,101
3345154161	Automatic test and measuring equipment: Component part test sets: Loaded circuit board test equipment	2009 2008	11		(S) (S)
3345154163	Automatic test and measuring equipment: Component part test sets: Other component part test sets and equipment	2009 2008	11	c/ c/	109,348 137,137
3345154165	Automatic test and measuring equipment: Equipment and subassembly test equipment	2009 2008	9	r/	144,524 201,617
3345154168	Standards and calibration equipment	2009 2008	23		182,595 201,311
3345154175	Communications test equipment: Network analyzers	2009 2008	8		458,405 793,139
3345154179	Communications test equipment: Fiber optics	2009 2008	3		26,424 29,299
3345154183	Communications test equipment: Microwave	2009 2008	5		19,306 16,396
3345154185	Communications test equipment: Other communications test equipment	2009 2008	20	c/ c/	315,637 378,790
3345154196	Other test equipment	2009 2008	64	a/ a/	640,040 691,184
3345154197	Parts and components for test equipment	2009 2008	39		163,461 158,218
3345155	Total other instruments to measure electricity	2009 2008	(X)	b/ b/	220,729 336,120
3345155114	Electrical indicating instruments: panel type	2009 2008	17		29,241 49,656
3345155121	Electrical indicating instruments: portable	2009 2008	15	c/	49,597 (S)
3345155124	Electrical recording instruments	2009 2008	18	a/ a/	71,063 126,471
3345155127	Other instruments to measure electricity	2009	13		43,923

		2008		r/	73,339
3345155135	Parts and accessories for indicating and recording instruments	2009 2008	16	(S) (S)	
3345194	Physical properties testing and inspection equipment and kinematic testing and measuring equipment	2009 2008	(X) b/	a/ b/	1,754,235 2,079,148
3345194101	Physical properties testing equipment, including hardness, tensile, stress, strain, abrasion, strength, torsion, wear, and similar testing equipment, including components and sold separately: For testing of metals	2009 2008	24 r/	b/ r/	417,590 536,382
3345194104	Physical properties testing equipment, including hardness, tensile, stress, strain, abrasion, strength, torsion, wear, and similar testing equipment, including components and sold separately: Other, including parts	2009 2008	47 b/	a/ b/	485,604 527,068
3345194107	Physical properties inspection equipment, including flaw detection, thickness measuring, and similar detection equipment: For testing of metals	2009 2008	14	(S) (S)	
3345194109	Physical properties inspection equipment, including flaw detection, thickness measuring, and similar detection equipment: Measuring and checking flow of fluids	2009 2008	17 b/	b/	217,243 207,522
3345194112	Physical properties inspection equipment, including flaw detection, thickness measuring, and similar detection equipment: Other, including parts	2009 2008	40 a/	a/	243,745 339,166
3345194116	Kinematic testing and measuring equipment, including parts (including vibration, acceleration, and other motion testing equipment)	2009 2008	23		208,109 300,734
3345195	Nuclear radiation detection and monitoring instruments	2009 2008	(X) c/	a/ c/	762,675 898,798
3345195105	Nuclear monitoring instruments, (include environment, personal dosimetry, and medical monitors)	2009 2008	15 a/	a/	206,203 260,918
3345195125	Nuclear instrument modules	2009 2008	8 b/	b/	93,427 (S)
3345195126	Radiation detecting elements, nuclear power supplies, and measuring and control devices that use beta, gamma, or neutron gauge technology	2009 2008	17		135,871 183,427
3345195127	Other nuclear radiation detection and monitoring instruments	2009 2008	16 b/	a/ b/	140,524 162,181
3345195129	Parts and components for nuclear radiation and detection and monitoring instruments	2009 2008	14 a/	a/	186,650 (S)
3345197	Commercial, geophysical, meteorological, and general-purpose instruments	2009 2008	(X) b/	c/ b/	2,039,500 2,591,733
3345197119	Thermometers (all kinds)	2009 2008	34 c/	c/	258,639 311,989
3345197124	Meteorological electronics equipment and instruments	2009 2008	29 c/	c/ c/	538,353 496,175

3345197127	Seismic instruments	2009	6	c/	493,677
		2008		c/	836,181
3345197135	All other instruments not listed above, including compasses, altimeters, humidity indicating and recording instruments, environmental gas detectors, air sampling instruments, dynamometers, etc.	2009	72	b/	748,831
		2008			947,388

Table 3. Shipments, Exports and Imports of Meters and Test Devices: 2009 and 2008
[Value in thousands of dollars]

Product code 1/	Product description	Year	Manufacturers' shipments (value f.o.b. plant)	Exports of domestic merchandise (value at port) 2/	Imports for consumption 3/ (value) 4/
3345141108	Gas meters, consumption registering (except parts)	2009	327,562	38,842	21,127
		2008	382,545	50,489	22,824
3345141116	Liquid meters (except parts)	2009 a/	1,328,741	86,079	39,476
		2008	1,393,999	94,248	32,902
3345141119	Parts, components, and accessories for gas and liquid meters, sold separately	2009	436,108	116,181	217,828
		2008	537,564	106,038	290,921
334514310T	Counting devices including taxi meters, parking meters and parts	2009	577,585	104,721	292,197
		2008	579,679	130,469	269,049
334515100T	Electricity meters	2009	(S)	173,542	397,498
		2008 c/	1,087,540	174,016	207,294
3345154102	Voltage, current, and resistance measuring equipment	2009 a/	445,448	488,189	250,298
		2008 t/	509,974	419,820	339,264
3345154111	Multimeters	2009	70,970	68,428	81,801
		2008	109,814	84,272	95,527
3345154136	Signal generating equipment	2009 c/	145,472	114,251	52,572
		2008 a/	174,934	127,172	67,164
334515412T	Equipment for testing electrical, radio and communication circuits, and motors	2009 a/	5,002,706	1,286,159	529,624
		2008	6,994,449	2,125,214	1,011,239
334519400T	Physical properties testing and inspection equipment and kinematic testing and measuring equipment	2009 a/	1,754,235	2,509,552	93,733
		2008 b/	2,079,148	636,286	148,663
334519500T	Nuclear radiation detection and monitoring instruments and equipment	2009 a/	762,675	416,739	159,699
		2008 c/	898,798	434,971	158,239
3345197119	Thermometers	2009 c/	258,639	125,583	221,901
		2008	311,989	142,980	255,557
3345197127	Seismic instruments	2009 c/	493,677	12,182	20,118
		2008 c/	836,181	11,781	25,749

Footnotes:

1/ For comparison of North American Industry Classification System (NAICS)- based codes with Schedule B export codes and HTSUSA import codes, see Table 4.

2/ Source: Census Bureau report EM 545, U.S. Exports

3/ Source: Census Bureau report, IM 145, U.S. Imports for Consumption

4/ Value represents the c.i.f. (cost, insurance, and freight) value at first port of entry in the United States plus import duties.

Table 4. Comparison of Combined North American Industry Classification System (NAICS)-Based Product Codes with Schedule B Export Codes and HTSUSA Import Codes: 2009

Combined code	Product code	Product description	Export code 1/	Import code 2/
3345141108	3345141108	Gas meters, consumption registering (except parts)	9028.10.0000	9028.10.0000
3345141116	3345141116	Liquid meters (except parts)	9028.20.0000	9028.20.0000
3345141119	3345141119	Parts, components, and accessories for gas and liquid meters, sold separately	9028.90.0080	9028.90.0080
334514310T	3345143104 3345143108	Counting devices including taxi meters, parking meters and parts	9106.20.0000	9028.90.0040
			9028.90.0040	9029.10.4000
			9029.10.0000	9029.10.8000
			9029.90.0000	9029.90.2000 9029.90.8080 9106.20.0000
334515100T	3345151104 3345151105 3345151107 3345151109	Electricity meters A.c. watt meters Demand meters Other electrical integrating meters Parts and accessories for integrating meters	9028.30.0000	9028.30.0000
3345154102	3345154102	Voltage, current, and resistance measuring equipment (except multimeters)	9030.33.0040	9030.33.0040
			9030.33.0080	9030.33.0080
			9030.39.0100	9030.39.0100
3345154111	3345154111	Multimeters	9030.31.0000	9030.31.0000
			9030.32.0000	9030.32.0000
3345154136	3345154136	Signal generating equipment	8543.20.0000	8543.20.0000
334515412T	3345154126	Equipment for testing multimeters, electrical, radio and communication circuits, and motors,	9029.20.6000	9029.20.6000
	3345154141		9030.82.0000	9030.82.0000
	3345154149		9030.90.8010	9030.90.2500
	3345154153		9030.90.8020	9030.90.4500
	3345154157		9030.90.8030	9030.90.6400
	3345154159		9030.90.8040	9030.90.6800
	3345154161		9030.90.8050	9030.90.8400
	3345154163		9030.90.8060	9030.90.8811
	3345154165			9030.90.8821
	3345154168			9030.90.8831
	3345154175			9030.90.8840
	3345154179			9030.90.8856
	3345154183			9030.90.8861
	3345154185			9031.80.8060
	3345154196			
334519400T	3345194101	Physical properties testing and inspection equipment and kinematic testing and measuring equipment	9024.10.0000	9024.10.0000
	3345194104		9024.80.0000	9024.80.0000
	3345194107		9024.90.0000	9024.90.0040
	3345194109			9024.90.0080
	3345194112			
	3345194116			
334519500T	3345195105	Nuclear radiation detection and monitoring instruments and equipment	9030.10.0000	9030.10.0000
	3345195125		9030.90.4000	
	3345195126			
	3345195127			
	3345195129			
3345197119	3345197119	Thermometers	9025.11.2000	9025.11.4000
			9025.11.4000	9025.19.8080
			9025.19.8040	9028.19.4000
			9025.19.8080	

3345197127	3345197127	Seismic instruments	9015.80.6000	9015.80.6000
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Footnotes:

1/Source: 2009 edition, Harmonized System-Based Schedule B, Statistical Classification of Domestic and Foreign Commodities Exported from the United States.

2/Source: Harmonized Tariff Schedule of the United States, Annotated (2009).

HISTORICAL NOTE

The Census Bureau has collected data on selected instruments and related products since 1961 on survey MA334B.

Beginning in 2005, a portion of data for MA334B, Selected Instruments and Related Products, will be published under the new survey MA334D, Defense, Navigational and Aerospace Electronics. Additional data for MA334B can be found on surveys MA334A, Analytical and Biomedical Instruments, MA334C, Control Instruments, and MA334T, Meters and Test Devices.

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Symbols:

- (D) - Withheld to avoid disclosing data of individual companies.
- (X) - Not applicable.
- (NA) - Not available.
- r/ - Revised by 5 percent or more from previously published data.
- (n.e.c.) - Not elsewhere classified.
- (n.s.k.) - Not specified by kind.
- (nehp) - Net engine horsepower
- (btuh) - British thermal units per hour
- (pt.) Part.
- Represents zero.

Estimation symbols - Percent of estimation for each item is indicated as follows:

- a/ - 10 to 19 percent of this item has been estimated.
- b/ - 20 to 29 percent of this item has been estimated.
- c/ - 30 to 49 percent of this item has been estimated.
- (S) - Withheld because estimates did not meet publication standards