

U.S. Census Bureau
Meters and Test Devices - 2008
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These data are also available online through STAT-USA by subscription. For further information, visit <http://www.stat-usa.gov/> or call 1-800-STAT-USA.

Table 1. Value of Shipments of Meters and Test Devices by product class: 2008 to 2004
[Millions of dollars]

Product class code	Product description	Year		Value
3345141	Integrating and totalizing meters for gas and liquids	2008		2,327.1
		2007	r/	2,123.6
		2006		1,584.8
		2005		1,449.4
		2004		1,427.5
3345143	Counting devices	2008		572.1
		2007	a/ r/	576.3
		2006		533.6
		2005		475.6
		2004		506.9
3345151	Integrating instruments, electrical	2008	c/	1,087.2
		2007	b/r/	962.9
		2006		872.1
		2005		601.6
		2004		502.6
3345154	Test equipment for testing electrical, radio and communication circuits, and motors	2008		7,956.5
		2007		8,736.4
		2006		9,390.7
		2005		9,226.5
		2004		9,325.7
3345155	Instruments to measure electricity	2008	b/	327.5
		2007	a/r/	318.5
		2006		407.5
		2005		406.7
		2004		331.9
3345194	Physical properties and kinematic testing equipment	2008	b/	2,065.6
		2007		2,130.1
		2006		1,906.9
		2005		1,801.4
		2004		1,732.9

3345195	Nuclear radiation detection and monitoring instruments	2008	b/	896.0
		2007	r/	842.9
		2006		635.2
		2005		601.2
		2004		592.4
3345197	Commercial, geophysical, meteorological, and general purpose instruments	2008	a/	2,603.8
		2007		2,315.6
		2006		1,864.0
		2005		1,596.8
		2004		1,367.1

Table 2. Value of Shipments of Meters and Test Devices: 2008 to 2007
[Value in thousands of dollars]

Product code	Product description	Year	No. of cos.		Value
3345141	Integrating and totalizing meters for gas and liquids	2008	(X)		2,327,055
		2007		r/	2,123,633
3345141108	Gas meters, consumption registering	2008	12		382,579
		2007		r/	333,544
3345141116	Liquid meters, positive displacement with registers and counters	2008	29		1,411,225
		2007		r/	1,286,030
3345141119	Parts, components, and accessories for gas and liquid meters, sold separately	2008	28		533,251
		2007		r/	504,059
3345143	Counting devices, excluding motor vehicle instruments	2008	(X)		572,072
		2007		a/r/	576,309
3345143104	Mechanical, electrical, and electronic input counting devices	2008	34		204,937
		2007		c/r/	214,383
3345143108	All other counting devices, including parts (toll meters, fare collection equipment systems, parking lot systems, taximeters, parking meters, etc.)	2008	18		367,135
		2007			361,926
3345151	Integrating instruments, electrical	2008	(X)	c/	1,087,238
		2007		b/r/	962,874
3345151104	A.C. watt meters	2008	7		(S)
		2007		c/r/	141,990
3345151105	Demand meters	2008	11	b/	411,902
		2007		a/r/	385,708
3345151107	Other electrical integrating meters	2008	10		(S)
		2007		c/r/	285,292
3345151109	Parts and accessories for integrating meters	2008	9		(S)
		2007		r/	149,884
3345154	Total test equipment for testing electrical, radio and communication circuits, and motors	2008	(X)		7,956,490
		2007			8,736,433
3345154102	Voltage, current, and resistance measuring equipment	2008	46		448,716
		2007		r/	357,604
3345154111	Multimeters	2008	13		109,814
		2007			104,876
3345154114	Power and energy measuring equipment	2008	15		85,862
		2007		r/	86,243
3345154126	Waveform measuring and/or analyzing equipment, including oscilloscopes and spectrum analyzers	2008	26		1,187,341
		2007			1,262,685
3345154136	Signal generating equipment	2008	25	b/	177,597
		2007			170,961

3345154141	Field strength and intensity measuring equipment	2008 2007	15		(S) 75,007
3345154149	Automatic test and measuring equipment: Combination and/or group test sets	2008 2007	39	r/	1,379,869 1,594,819
3345154153	Automatic test and measuring equipment: Component part test sets: Semiconductor component test equipment: Memory	2008 2007	11	r/	26,658 66,705
3345154157	Automatic test and measuring equipment: Component part test sets: Semiconductor component test equipment: Microprocessor	2008 2007	13	a/ a/r/	488,214 890,102
3345154159	Automatic test and measuring equipment: Component part test sets: Semiconductor component test equipment: Other semiconductor component test equipment	2008 2007	21	r/	1,233,529 1,634,079
3345154161	Automatic test and measuring equipment: Component part test sets: Loaded circuit board test equipment	2008 2007	11		(S) 136,423
3345154163	Automatic test and measuring equipment: Component part test sets: Other component part test sets and equipment	2008 2007	15	c/ r/	137,137 162,808
3345154165	Automatic test and measuring equipment: Equipment and subassembly test equipment	2008 2007	9	r/	174,083 200,429
3345154168	Standards and calibration equipment	2008 2007	25		208,157 163,433
3345154175	Communications test equipment: Network analyzers	2008 2007	9		793,139 502,809
3345154179	Communications test equipment: Fiber optics	2008 2007	3	r/	29,299 30,869
3345154183	Communications test equipment: Microwave	2008 2007	4	r/	16,396 16,441
3345154185	Communications test equipment: Other communications test equipment	2008 2007	19	c/	378,790 400,019
3345154196	Other test equipment	2008 2007	68	a/ a/r/	695,178 662,753
3345154197	Parts and components for test equipment	2008 2007	39	r/	157,968 217,368
3345155	Total other instruments to measure electricity	2008 2007	(X)	b/ a/r/	327,480 318,474
3345155114	Electrical indicating instruments: panel type	2008 2007	17		48,180 48,470
3345155121	Electrical indicating instruments: portable	2008 2007	13	r/	(S) 45,702
3345155124	Electrical recording instruments	2008 2007	20	a/ r/	126,568 108,206
3345155127	Other instruments to measure electricity	2008	14		65,617

		2007			73,442
3345155135	Parts and accessories for indicating and recording instruments	2008 2007	21	(S) (S)	
3345194	Physical properties testing and inspection equipment and kinematic testing and measuring equipment	2008 2007	(X)	b/	2,065,555 2,130,104
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	2008 2007	23		452,189 561,778
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	2008 2007	46	b/ r/	511,063 497,242
3345194107	Physical properties inspection equipment, including flaw detection, thickness measuring, and similar detection equipment: For testing of metals	2008 2007	17		(S) (S)
3345194109	Physical properties inspection equipment, including flaw detection, thickness measuring, and similar detection equipment: Measuring and checking flow of fluids	2008 2007	18	r/	206,204 185,928
3345194112	Physical properties inspection equipment, including flaw detection, thickness measuring, and similar detection equipment: Other, including parts	2008 2007	39	a/	338,893 388,769
3345194116	Kinematic testing and measuring equipment, including parts (including vibration, acceleration, and other motion testing equipment)	2008 2007	26	r/	300,668 271,814
3345195	Nuclear radiation detection and monitoring instruments	2008 2007	(X)	b/ r/	896,018 842,850
3345195105	Nuclear monitoring instruments, (include environment, personal dosimetry, and medical monitors)	2008 2007	12	a/	260,918 247,038
3345195125	Nuclear instrument modules, n.e.c.	2008 2007	10	a/	(S) 62,842
3345195126	Radiation detecting elements, nuclear power supplies, and measuring and control devices that use beta, gamma, or neutron gauge technology	2008 2007	18	r/	178,652 171,784
3345195127	Other nuclear radiation detection and monitoring instruments	2008 2007	18	b/ b/r/	164,176 189,539
3345195129	Parts and components for nuclear radiation and detection and monitoring instruments	2008 2007	15	a/r/	(S) 171,647
3345197	Commercial, geophysical, meteorological, and general-purpose instruments	2008 2007	(X)	a/	2,603,824 2,315,639
3345197119	Thermometers (all kinds)	2008 2007	33	a/ c/	318,647 274,659
3345197124	Meteorological electronics equipment and instruments	2008 2007	32	c/ c/	494,818 484,762

3345197127	Seismic instruments	2008	9	c/	837,840
		2007			694,744
3345197135	All other instruments not listed above, including compasses, altimeters, humidity indicating and recording instruments, environmental gas detectors, air sampling instruments, dynamometers, etc.	2008	80	a/	952,519
		2007			861,474

Table 3. Shipments, Exports and Imports of Meters and Test Devices: 2008 and 2007
[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 (value) 3/4/
3345141108	Gas meters, consumption registering (except parts)	2008		382,579	50,489	22,824
		2007	t/	333,544	48,622	17,274
3345141116	Liquid meters (except parts)	2008		1,411,225	94,248	32,902
		2007	t/	1,286,030	75,445	12,730
3345141119	Parts, components, and accessories for gas and liquid meters, sold separately	2008		533,251	106,038	290,921
		2007	t/	504,059	105,251	240,560
334514310T	Counting devices, n.e.c., including taxi meters, parking meters and parts	2008		572,072	130,469	269,049
		2007	a/t/	576,309	117,111	286,249
334515100T	Electricity meters	2008	c/	1,087,238	174,016	207,294
		2007	b/t/	962,874	166,155	157,262
3345154102	Voltage, current, and resistance measuring equipment	2008		448,716	419,820	339,264
		2007	t/	357,604	335,586	356,744
3345154111	Multimeters	2008		109,814	84,272	95,527
		2007		104,876	78,703	99,582
3345154136	Signal generating equipment	2008	b/	177,597	127,172	67,164
		2007		170,961	155,178	64,924
334515412T	Test equipment for testing multimeters, electrical, radio and communication circuits, and motors, n.e.c.	2008		6,976,533	2,125,214	1,011,239
		2007		7,799,381	3,105,029	1,078,784
334519400T	Physical properties testing and inspection equipment and kinematic testing and measuring equipment	2008	b/	2,065,555	636,286	148,663
		2007		2,130,104	411,110	150,196
334519500T	Nuclear radiation detection and monitoring instruments and equipment	2008	c/	896,018	434,971	158,239
		2007	t/	842,850	434,638	176,340
3345197119	Thermometers	2008	a/	318,647	142,980	255,557
		2007	c/	274,659	132,203	263,600
3345197127	Seismic instruments	2008	c/	837,840	11,781	25,749
		2007		694,744	13,867	26,424

1/ For comparison of the North American Industry Classification System codes with Schedule B export numbers and HTSUSA import numbers, 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: 2008

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, n.e.c., 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	9028.30.0000	9028.30.0000
3345154102	3345154102	Voltage, current, and resistance measuring equipment	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	Test equipment for testing multimeters, electrical, radio and communication circuits, and motors, n.e.c	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

1/Source: 2008 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 (2008).

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, was 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