

# CURRENT INDUSTRIAL REPORTS SERIES

2007

## MA334T — METERS AND TEST DEVICES

### DEFINITIONS AND SPECIAL INSTRUCTIONS

#### 1. Scope of this survey

This survey covers the manufacture of meters and test devices and related products.

#### 2. Figures to be reported

Companies with more than one establishment manufacturing the products covered by this survey are requested to complete a separate report form for each location. If you have not received a separate form for each of your establishments, please call the contact shown on the report form or write to the U.S. Census Bureau for additional forms.

##### a. Value of Shipments

The figures on value of shipments should include the physical shipments of all products sold, transferred to other establishments within your company, or shipped on consignment, whether for domestic or export sale. The value represents the net sales price, f.o.b. plant, to the customer or branch to which the products are shipped, net of discounts, allowances, freight charges and returns. Shipments to your own branches should be assigned the same value as comparable sales to unaffiliated customers, i.e., the value includes an appropriate allocation of company overhead and profit. Products bought and resold without further manufacture should not be included in shipments.

Report value of shipments in thousands of dollars.

##### *Include:*

- All shipments, whether for domestic use or for export
- Shipments on consignments as well as for sale

- Interplant transfers in which products are shipped from one plant of your company to another plant or sales branch
- Private brand units as well as your own company brand units

##### *Exclude:*

- Products manufactured for you by others
- Products bought and resold without further manufacture by your company
- Imports which are reshipped without further domestic manufacture

##### b. Research and Development

Dollar shipments should reflect income from development, design, and engineering services performed by the reporting plant in connection with the manufacture of the products shipped, whether included in a single production contract, or contracted for separately, but intended as preparation for the manufacture of the specific products.

##### c. Columnar structure of report

When entering your figures on the report, please be sure to report the information in the correct columns as follows:

*Column 1* – Value (report shipments in thousand of dollars. (Example: \$1,000,000, report as \$1,000)

#### 3. Definitions

The product detail for this survey, as shown in the Reference List is defined according to standard nomenclature for this industry.

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## 4. Comparability

Data reported in this survey should correspond to data reported in the Economic Census - Manufacturing Sector form. The sum of values for item codes shown in column (a) should correspond to dollar values reported under product codes indicated in column (b) below.

Current Industrial Reports (Form MA334T)  Item codes (a)	Economic Census - Manufacturing Sector  Product codes (b)
5408 through 5425	3345141100
5511 through 5515	3345143100
5611 through 5631	3345151100
5704 through 5849	3345154100
6017 through 6057	3345155100
6201 through 6216	3345194100
7005 through 7039	3345195100
7205 through 7220	3345197100

# CURRENT INDUSTRIAL REPORTS SERIES

## REFERENCE LIST

FORM MA334T		
Product code	Item code	Item Description
<b>INTEGRATING AND TOTALIZING METERS FOR GAS AND LIQUIDS</b>		
3345141108	<b>5408</b>	Gas meters, consumption registering
3345141116	<b>5421</b>	Liquid meters, positive displacement with registers and counters
3345141119	<b>5425</b>	Parts, components, and accessories for gas and liquid meters
<b>3345141100</b>	<b>5429</b>	<b>Total integrating and totalizing meters for gas and liquids (sum of item codes 5408–5425)</b>
<b>COUNTING DEVICES</b>		
3345143104	<b>5511</b>	Mechanical, electrical, and electronic input counting devices
3345143108	<b>5515</b>	All other counting devices, including parts (toll meters, fare collection equipment systems, parking lot systems, taximeters, parking meters, etc.)
<b>3345143100</b>	<b>5529</b>	<b>Total counting devices (sum of item codes 5511 and 5515)</b>
<b>INTEGRATING INSTRUMENTS, ELECTRICAL</b>		
3345151104	<b>5611</b>	A.c. watt meters
3345151105	<b>5621</b>	Demand meters
3345151107	<b>5625</b>	Other electrical integrating meters
3345151109	<b>5631</b>	Parts and accessories for integrating meters
<b>3345151100</b>	<b>5639</b>	<b>Total integrating instruments, electrical (sum of item codes 5611–5631)</b>
<b>TEST EQUIPMENT FOR TESTING ELECTRICAL RADIO AND COMMUNICATION CIRCUITS AND MOTORS</b>		
3345154102	<b>5704</b>	Voltage, current, and resistance measuring equipment
3345154111	<b>5711</b>	Multimeters
3345154114	<b>5714</b>	Power and energy measuring equipment
3345154126	<b>5729</b>	Waveform measuring and/or analyzing equipment
3345154136	<b>5739</b>	Signal generating equipment
3345154141	<b>5748</b>	Field strength and intensity measuring equipment
3345154149	<b>5759</b>	Automatic test and measuring equipment: Combination and/or group test sets Component part test sets: Semiconductor component test equipment:
3345154153	<b>5762</b>	Memory
3345154157	<b>5764</b>	Microprocessor
3345154159	<b>5765</b>	Other semiconductor component test equipment
3345154161	<b>5766</b>	Loaded circuit board test equipment
3345154163	<b>5767</b>	Other component part test sets and equipment
3345154165	<b>5769</b>	Equipment and subassembly test equipment
3345154168	<b>5775</b>	Standards and calibration equipment

# CURRENT INDUSTRIAL REPORTS SERIES

## REFERENCE LIST—Continued

FORM <b>MA334T</b>		
Product code	Item code	Item Description
<b>TEST EQUIPMENT FOR TESTING ELECTRICAL RADIO AND COMMUNICATION CIRCUITS AND MOTORS—Continued</b>		
*3345154175	<b>5782</b>	Communications test equipment
*3345154179	<b>5784</b>	Network analyzers
*3345154183	<b>5786</b>	Fiber optics
*3345154185	<b>5787</b>	Microwave
		Other communications test equipment
*3345154196	<b>5817</b>	Other test equipment
*3345154197	<b>5849</b>	Parts and components for test equipment
<b>3345154100</b>	<b>5899</b>	<b>Total test equipment for testing electrical radio and communication circuits and motors (<i>sum of item codes 5704–5849</i>)</b>
<b>OTHER INSTRUMENTS TO MEASURE ELECTRICITY</b>		
3345155114	<b>6017</b>	Electrical indicating instruments: panel type
3345155121	<b>6024</b>	Electrical indicating instruments: portable
3345155124	<b>6036</b>	Electrical recording instruments
3345155127	<b>6037</b>	Other instruments to measure electricity
3345155135	<b>6057</b>	Parts and accessories for indicating and recording instruments
<b>3345155100</b>	<b>6059</b>	<b>Total other instruments to measure electricity (<i>sum of item codes 6017–6057</i>)</b>
<b>PHYSICAL PROPERTIES TESTING AND INSPECTION EQUIPMENT AND KINEMATIC TESTING AND MEASURING EQUIPMENT</b>		
Physical properties testing equipment, including hardness, tensile, stress, strain, abrasion, strength, torsion, wear, and similar testing equipment:		
3345194101	<b>6201</b>	For testing of metals
3345194104	<b>6204</b>	Other, including parts
Physical properties inspection equipment, including flaw detection, thickness measuring, and similar inspection equipment:		
3345194107	<b>6207</b>	For testing of metals
3345194109	<b>6210</b>	Measuring and checking flow of fluids
3345194112	<b>6215</b>	Other, including parts
3345194116	<b>6216</b>	Kinematic testing and measuring equipment, including parts (including vibration, acceleration, and other motion testing equipment)
<b>3345194100</b>	<b>6229</b>	<b>Total physical properties testing and inspection equipment and kinematic testing and measuring equipment (<i>sum of item codes 6201–6216</i>)</b>

\* New or revised for 2007

# CURRENT INDUSTRIAL REPORTS SERIES

## REFERENCE LIST—Continued

FORM MA334T		
Product code	Item code	Item Description
<b>NUCLEAR RADIATION DETECTION AND MONITORING INSTRUMENTS</b>		
3345195105	<b>7005</b>	Nuclear monitoring instruments (include environment, personal dosimetry, and medical monitors)
3345195125	<b>7035</b>	Nuclear instrument modules
3345195126	<b>7036</b>	Radiation detecting elements, nuclear power supplies, and measuring and control devices that use beta, gamma, or neutron gauge technology
3345195127	<b>7037</b>	Other nuclear radiation detection and monitoring instruments
3345195129	<b>7039</b>	Parts and components for nuclear radiation and detection and monitoring instruments
<b>3345195100</b>	<b>7049</b>	<b>Total nuclear radiation detection and monitoring instruments (sum of item codes 7005–7039)</b>
<b>COMMERCIAL, GEOPHYSICAL, METEOROLOGICAL, AND GENERAL PURPOSE INSTRUMENTS AND EQUIPMENT</b>		
3345197119	<b>7205</b>	Thermometers (all kinds)
3345197124	<b>7210</b>	Meteorological electronics equipment and instruments
3345197127	<b>7215</b>	Seismic instruments
3345197135	<b>7220</b>	All other instruments not listed above, including compasses, altimeters, humidity indicating and recording instruments, environmental gas detectors, air sampling instruments, dynamometers, etc.
<b>3345197100</b>	<b>7297</b>	<b>Total commercial, geophysical, meteorological, and general purpose instruments and equipment (sum of item codes 7205–7220)</b>
<b>SELECTED NONMANUFACTURING REVENUES</b>		
999998900	<b>9945</b>	Resales—Sales of products bought and sold without further manufacture, processing, or assembly
999998041	<b>9970</b>	Receipts for research and development work
NOTES:		

**REPORT FOR CALENDAR YR 2007**

U.S. DEPARTMENT OF COMMERCE  
BUREAU OF THE CENSUS

FORM **MA334T**

**CURRENT INDUSTRIAL REPORTS**

METERS AND TEST DEVICES

Annual Report

The 8-digit number that appears above indicates that the Office of Management and Budget has approved this survey. If that number is not displayed, do not complete this form. **YOUR RESPONSE IS REQUIRED BY LAW** (Title 13, United States Code). By section 9 of the same law, **YOUR REPORT IS CONFIDENTIAL**. It may be seen only by persons sworn to uphold the confidentiality of Census Bureau information and may be used only for statistical purposes. The law also provides that copies retained in your files are immune from legal process.

**In correspondence pertaining to this establishment's report, please refer to the 11 digit Identification Number (ID) 01234567890**



ID 01234567890 577 00 0701 17 MA334T  
00 2007A1 MA334T

SEQ: 1

ATTN: Controller  
TEST FORM

SUITLAND MD 20850

If you have questions regarding this report form please contact:  
JESSE DAWSON EXT 2  
1(800)201-4647

**EMPLOYER IDENTIFICATION (EI) NUMBER.** Identification number used on Employer's Quarterly Federal Tax Return (U.S. Treasury Department Form 941) **(Enter if not shown, correct if wrong.)**

**CONTACT PERSON** (Enter information if not shown, correct if wrong.)  
Name ATTN: Controller

Area code          Number

Fax number

(Please correct any error in name and address including ZIP Code)

Enter or correct email address: [ ]

**PART I FOR EACH ITEM LISTED BELOW, ENTER FIGURES OR "0" for current period. (The figures shown in the shaded areas were reported for the previous two periods.) PLEASE REFER TO THE INSTRUCTIONS BEFORE COMPLETING THIS REPORT FORM.**

Item (Product code - Description)	Item code	Report period	Value {\$1000}	{Do not report imported or purchased products on which your company performed no further fabrication or significant assembly.}					
				1	2	3	4	5	6
If BOOK FIGURES are not readily available, reasonable estimates are acceptable.									
INTEGRATING & TOTALIZING METERS FOR GAS AND LIQUIDS									
3345141108-Gas meters, consumption registering	5408	2007							
		2006							
		2005							
3345141116-Liquid meters, positive displacement with registers and counters	5421	2007							
		2006							
		2005							

**\* Figures not received when form was prepared. PLEASE ENTER, if not previously submitted.**

**CURRENT INDUSTRIAL REPORTS - Continued**

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**PART I - Continued**

Item (Product code - Description)	Item code	Report period	Value		{Do not report imported or purchased products on which your company performed no further fabrication or significant assembly.}					
			{ \$1000 }							
			1	2	3	4	5	6		
3345141119-Parts, components, and accessories for gas and liquid meters	5425	2007								
		2006								
		2005								
3345141100-Total integrating & totalizing meters for gas & liquids {sum of item codes 5408-5425}	5429	2007								
		2006								
		2005								
COUNTING DEVICES										
3345143104-Mechanical, electrical, and electronic input counting devices	5511	2007								
		2006								
		2005								
3345143108-All other counting devices, including parts {see manual}	5515	2007								
		2006								
		2005								
3345143100-Total counting devices {sum of item codes 5511 and 5515}	5529	2007								
		2006								
		2005								
INTEGRATING INSTRUMENTS, ELECTRICAL										
3345151104-A.C. watt meters	5611	2007								
		2006								
		2005								
3345151105-Demand meters	5621	2007								
		2006								
		2005								
3345151107-Other electrical integrating meters	5625	2007								
		2006								
		2005								

**CURRENT INDUSTRIAL REPORTS - Continued**

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**PART I - Continued**

Item (Product code - Description)	Item code	Report period	Value					
			{ \$1000 }					
3345151109-Parts & accessories for integrating meters	5631	2007	1	2	3	4	5	6
		2006						
		2005						
3345151100-Total integrating instruments, electrical {sum of items 5611-5631}	5639	2007						
		2006						
		2005						
TEST EQUIPMENT FOR TESTING ELECTRICAL RADIO AND COMMUNICATION CIRCUITS AND MOTORS								
3345154102-Voltage, current, and resistance measuring equipment	5704	2007						
		2006						
		2005						
3345154111-Multimeters	5711	2007						
		2006						
		2005						
3345154114-Power & energy measuring equipment	5714	2007						
		2006						
		2005						
3345154126-Waveform measuring and/or analyzing equipment	5729	2007						
		2006						
		2005						
3345154136-Signal generating equipment	5739	2007						
		2006						
		2005						
3345154141-Field strength and intensity measuring equipment	5748	2007						
		2006						
		2005						
3345154149-Automatic test and measuring equipment: combination and/or group test sets	5759	2007						
		2006						
		2005						

{Do not report imported or purchased products on which your company performed no further fabrication or significant assembly.}



**CURRENT INDUSTRIAL REPORTS - Continued**

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**PART I - Continued**

Item (Product code - Description)	Item code	Report period	Value		{Do not report imported or purchased products on which your company performed no further fabrication or significant assembly.}						
			{ \$1000 }		1	2	3	4	5	6	
3345154153-Semiconductor component test equipment: memory	5762	2007									
		2006									
		2005									
3345154157-Semiconductor component test equipment: microprocessor	5764	2007									
		2006									
		2005									
3345154159-Other semiconductor component test equipment	5765	2007									
		2006									
		2005									
3345154161-Loaded circuit board test equipment	5766	2007									
		2006									
		2005									
3345154163-Other component part test sets & equipment	5767	2007									
		2006									
		2005									
3345154165-Equipment & sub-assembly test equipment	5769	2007									
		2006									
		2005									
3345154168-Standards and calibration equipment	5775	2007									
		2006									
		2005									
3345154175-Communications test equipment: network analyzers	5782	2007									
		2006									
		2005									
3345154179-Communications test equipment: fiber optics	5784	2007									
		2006									
		2005									
3345154183-Communications test equipment: microwave	5786	2007									
		2006									
		2005									

**CURRENT INDUSTRIAL REPORTS - Continued**

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**PART I - Continued**

Item (Product code - Description)	Item code	Report period	Value		{Do not report imported or purchased products on which your company performed no further fabrication or significant assembly.}						
			{ \$1000 }		1	2	3	4	5	6	
3345154185-Other communications test equipment	5787	2007									
		2006									
		2005									
3345154196-Other test equipment	5817	2007									
		2006									
		2005									
3345154197-Parts & components for test equipment	5849	2007									
		2006									
		2005									
3345154100-Total test equip. for testing electrical radio & communic. circuits & motors {sum of items 5704-5849}	5899	2007									
		2006									
		2005									
OTHER INSTRUMENTS TO MEASURE ELECTRICITY											
3345155114-Electrical indicating instruments: panel type	6017	2007									
		2006									
		2005									
3345155121-Electrical indicating instruments: portable	6024	2007									
		2006									
		2005									
3345155124-Electrical recording instruments	6036	2007									
		2006									
		2005									
3345155127-Other instruments to measure electricity	6037	2007									
		2006									
		2005									
3345155135-Parts and accessories for indicating & recording instruments	6057	2007									
		2006									
		2005									

**CURRENT INDUSTRIAL REPORTS - Continued**

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**PART I - Continued**

Item (Product code - Description)	Item code	Report period	Value					
			1	2	3	4	5	6
			{Do not report imported or purchased products on which your company performed no further fabrication or significant assembly.}					
			{\$1000}					
3345155100-Total other instruments to measure electricity {sum of item codes 6017-6057}	6059	2007						
		2006						
		2005						
PHYSICAL PROPERTIES TESTING & INSPECTION EQUIPMENT & KINEMATIC TESTING & MEASURING EQUIPMENT								
3345194101-Physical properties testing equip.: for testing of metals	6201	2007						
		2006						
		2005						
3345194104-Physical properties testing equip.: other, including parts	6204	2007						
		2006						
		2005						
3345194107-Physical properties inspection equipment: for testing of metals	6207	2007						
		2006						
		2005						
3345194109-Physical properties inspection equipment: measuring and checking of fluids	6210	2007						
		2006						
		2005						
3345194112-Physical properties inspection equipment: other, including parts	6215	2007						
		2006						
		2005						
3345194116-Kinematic testing and measuring equipment, including parts {see manual}	6216	2007						
		2006						
		2005						
3345194100-Total physical prop. testing & inspect. eq. kinematic testing/measuring eq. {sum of 6201-6216}	6229	2007						
		2006						
		2005						
NUCLEAR RADIATION DETECTION AND MONITORING INSTRUMENTS								

**CURRENT INDUSTRIAL REPORTS - Continued**

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**PART I - Continued**

Item (Product code - Description)	Item code	Report period	Value						
			1	2	3	4	5	6	
3345195105-Nuclear monitoring instruments {incl. environment, personal dosimetry, & medical monitors}	7005	2007							
		2006							
		2005							
3345195125-Nuclear instrument modules	7035	2007							
		2006							
		2005							
3345195126-Radiation detecting elements, nuclear power supplies {see manual}	7036	2007							
		2006							
		2005							
3345195127-Other nuclear radiation detection and monitoring instruments	7037	2007							
		2006							
		2005							
3345195129-Parts & components for nuclear radiation and detection and monitoring instruments	7039	2007							
		2006							
		2005							
3345195100-Total nuclear radiation detection & monitoring instruments {sum of items 7005-7039}	7049	2007							
		2006							
		2005							
COMMERCIAL, GEOPHYSICAL, METEOROLOGICAL, AND GENERAL PURPOSE INSTRUMENTS AND EQUIPMENT									
3345197119-Thermometers {all kinds}	7205	2007							
		2006							
		2005							
3345197124-Meteorological electronics equipment and instruments	7210	2007							
		2006							
		2005							
3345197127-Seismic instruments	7215	2007							
		2006							
		2005							

PART I - Continued								
Item (Product code - Description)	Item code	Report period	Value			{Do not report imported or purchased products on which your company performed no further fabrication or significant assembly.}		
			{ \$1000 }	1	2			
3345197135-All other instruments not listed above {see manual}	7220	2007						
		2006						
		2005						
3345197100-Total commercial, geophysical, meteorological, & general purp. instru. & equip. {sum of 7205-7220}	7297	2007						
		2006						
		2005						
SELECTED NONMANUFACTURING REVENUES								
9999998900-Resales-Sales of products bought and sold without further manufacture, processing, or assembly	9945	2007						
		2006						
		2005						
9999998041-Receipts for research and development work	9970	2007						
		2006						
		2005						

If all your items are not listed, please use additional lines or a blank sheet of paper.

**PART II Has there been any change in the ownership or operation of this establishment during this period?**  
 Yes - Indicate type of change below.       No - Skip to Part III.

	Name of company	Address (Number and street, city, State, ZIP Code)	Date of change
A. <input type="checkbox"/> Purchased from			
B. <input type="checkbox"/> Sold to			
C. <input type="checkbox"/> Plant discontinued all operations		Date	
D. <input type="checkbox"/> Plant operations no longer covered by this survey - Describe in "Remarks" the products currently produced.			
E. <input type="checkbox"/> Reorganized - Describe in "Remarks;" e.g., partnership change or change in corporate status.			

**PART III Do the figures shown on this report and on your last report cover the identical establishments?**  
 Yes       No - Indicate reasons for difference in "Remarks."

**PART IV** Remarks

**PART V CERTIFICATION** - This report is substantially accurate and has been prepared in accordance with instructions.

Signature of authorized official	Title	Date
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Complete and return this form in the envelope provided or to:	<b>Bureau of the Census</b> 1201 East Tenth Street Jeffersonville, IN 47132	<b>NOTE:</b> Please make a photocopy of this for your records.
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