# CURRENT INDUSTRIAL REPORTS SERIES 

2007

## DEFINITIONS AND SPECIAL INSTRUCTIONS

## 1. Scope of this survey

This survey covers the manufacture of control instruments.

## 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. Quantity and Value of Shipments

The figures on quantity and 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.

## b. Unit of measure

When posting your figures to the original report, please be sure to report information in the correct columns. These are:

## Column 1 - Quantity of shipments

Column 2 - Value (Report shipments in thousands of dollars. (Example: \$1,000,000, report as \$1,000)

Report value figures in thousands of dollars. Each product should be reported separately. Do not combine product lines.

## 3. Definitions

Many of the products are listed separately, either as control components or as control assemblies. Report separate data for such products, but do not report separate control components which are sold as an integral part of a control assembly.

Relay-A device that is operative by a variation in the conditions of one circuit to effect the operation of other devices in the same or another electric circuit.

Control relay-A relay which functions to initiate or to permit the next desired operation in a control circuit or scheme.

Overload relay-A relay which functions at a predetermined value of current (overcurrent relay).

Busway-A prefabricated electric distribution system consisting of bus bars in a protective enclosure, together with associated fittings. All busways include as a minimum: bus bars, some supporting means for these bars, and a housing around them.

Industrial control relays (all voltages)-A.c. and d.c. operated electromagnetic relays rated for resistive loads and used to perform logic functions in industrial electronic applications. Includes plug-in, ice cube, printed circuit card mounted and base mounted relays with mounted timer attachments. Excludes timer attachments sold separately, relays designed for use with metal mill or crane control, and relays incorporated in products covered by other categories. Also excludes solid-state relays and relays designed for military applications, or for the appliance or telephone industry.

## 3. Definitions-Continued

Electronic relays (all voltages)-A.c. and d.c. operated electromagnetic relays rated for resistive loads and used to perform logic functions in industrial electronic applications. Includes plug-in, ice cube, printed circuit card mounted and base mounted relays with mounted timer attachments. Excludes timer attachments sold separately, relays designed for use with metal mill or crane control, and relays incorporated in products covered by other categories. Also excludes solid-state relays and relays designed for military applications.

Solid-state relays (all voltages)-Solid-state relays sold as individual items. Typically, these are single circuit devices that use a logic level signal to control a 120 volt circuit. Excludes overcurrent relays and output devices of logic systems sold separately, mill and crane accessories, and similar items incorporated in a product covered by any other category.

Solid-state industrial control timers (all voltages)-- Interval and time-delay relays that have their timing period controlled by a circuit using semiconductors, regardless of output means. Excludes relays with solid-state timer attachments and timers designed as solid-state logic units or for metal mill or crane applications or incorporated in products covered by other categories.

Nonsolid-state industrial control timers (all voltages)-Mechanically or electrically operated a.c. or d.c. timers designed primarily to operate in logic and

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control circuits of industrial applications. Includes mechanically programmed timers, timing attachments used with contactors or relays, motor driven, and pneumatic timing relays, time delay relays (nonelectric), interval timers and under voltage time delay relays. Excludes solid-state timers, relays with timer attachments mounted and timers designed as solid-state logic units or for metal mill or crane applications or incorporated in products covered by other categories.

## SPECIFIC APPLICATION OR SPECIFIC INDUSTRY CONTROLS:

Metal mill controls and accessories (all voltages)-Any a.c. or d.c. power or control circuit device designed for and sold separately for metal mill applications. Includes master switches, limit switches (power or control circuits), timers, relays, etc.

Crane and hoist controls (all voltages)-A.c. or d.c. control assemblies designed to control hoist, trolley, and/or bridge motion for application in mines, traffic carrying bridges, elevators, and general industry. Includes crane protective panels, hoist or crane master switches and adjustable speed drives for these purposes, except those for marine applications. Excludes crane and hoist controls for marine applications, pendant control stations, and other accessories sold separately.

Definite purpose contactors and starters (600 volts or less)-Definite purpose full voltage contactors and starters, including open and enclosed devices. Including, but not limited to, heating loads, lighting loads, refrigeration, solid-state starters and contact, etc.

Computer numerical controls-A computer-based motion control device programmable in numerical word address format, such as EIA RS-274D, RS-494, or equivalent international standard. A computer numerical control (CNC) product typically includes a CPU module, associated panel and processor rack equipment, operator interface devices, input/output signal and data devices, software and related peripheral apparatus.

Robotic controls-A computer-based motion control device primarily designed to control the motion of a robot. A robot is defined as a "reprogrammable multifunctional manipulator designed to move material, parts, tools, or specialized devices through variable program motions for the performance of a variety of tasks."

Other stand alone motion controls-Self-contained, processor-based motion/positioning control devices for single axis and multiaxis applications, programmable in various languages, for control if servo or stepper drives and motors.

Subordinate motion controls-Processor-based devices which internally execute motion programs, yet rely on
connection to an external bus or rack for power, communications, and supervisor control.

Programmable control motion module-A subordinate motion control device which is intended for use in or with a programmable controller.

Bus motion module-A subordination motion control device which is intended for use with general purpose computers, such as personal computers, VME, STD, Multibus.

Chip-level device-Integrated circuit-based motion control devices intended for incorporation in circuit board designs.

Other specific purpose equipment (all voltages)-Any industrial control equipment designed for a specific application which is not covered by any other category, such as aircraft contactors and controllers rated 601V up to $2,200 \mathrm{~V}$, dynamic braking controls sold separately, dimmers, and automatic transfer switches.

## 3. Definitions-Continued

## SPECIFIC APPLICATION OR SPECIFIC INDUSTRY CONTROLS-Continued

A.c. or d.c. control panels (all voltages)-Assemblies of components in which the principal power circuits are a.c. or d.c., for applications other than welding, marine auxiliaries, crane, hoist, or adjustable speed drives. Also excluded are panels which have been the outputs controlled by solid-state digital logic. Specifically included are analog controllers, furnace and lifting magnet controls, regulators, and motor controls which provide for plugging and/or dynamic braking.

GENERAL PURPOSE CONTROLS:
A.c. full voltage, noncombination magnetic starters (1,000 volts or less)-Electromagnetic switches with overload protection rated in amperes, horsepower, or kilowatts for application at full voltage with nonsynchronous motors. Includes open and enclosed; single and multispeed; reversing and nonreversing; electrically, mechanically, or magnetically held; a.c. or d.c. operated; and controls for one or more squirrel cage or wound rotor motors. Excludes those starters which qualify for any "Specific application" item.
A.c. full voltage combination magnetic starters (1,000 volts or less)-Electromagnetic switches with or without overload protection combined with a disconnect device, rated in amperes, horsepower, or kilowatts for application at full voltage with nonsynchronous motors. Includes open and enclosed; single and multispeed; reversing and nonreversing; electrically, mechanically, or magnetically held; a.c. or d.c. operated; and controls for one or more squirrel cage or wound rotor motors. Variations include those with fusible or nonfusible

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disconnect switch or circuit breaker; all those for oil well, irrigation, or other pumping application. Excludes those starters which qualify for any "Specific application" item.

Disconnect switches ( 600 volts or less)-A 600 volt rated switch intended primarily to be used with electric motor controls, and where available, fault currents greater than 10 KA RMS symmetrical are likely to be encountered. The device may be HP and ampere rated, and may meet the requirements for service entrance disconnecting means. "Safety Switches" are not included in this category.
A.c. full voltage manual controllers (1,000 volts or less)-Manual switches with or without overload protection, with or without disconnect devices, rated in amperes, horsepower, or kilowatts for application at full voltage with nonsynchronous motors. Includes open and enclosed; single and multispeed; reversing and nonreversing; electrically, mechanically, or magnetically held; a.c. or d.c. operated; and controls for one or more squirrel cage or wound rotor motors. Variations include toggle switches, drum switches, and loop switches. Excludes those starters which qualify for any "Specific application" item.
A.c. magnetic contactors ( 1,000 volts or less)-Electromagnetic switches without overload protection, and without disconnect devices, rated in amperes, horsepower, or kilowatts for application at full voltage with nonsynchronous motors. Includes open and enclosed; single and multispeed; reversing and nonreversing; electrically, mechanically, or magnetically held; a.c. or d.c. operated, for lighting, heating, motor, power distribution, or high frequency applications.
A.c. reduced voltage magnetic or manual controllers (1,000 volts or less)-Magnetic switches without overload protection, with or without disconnect devices, rated in amperes, horsepower, or kilowatts, which start nonsynchronous motors. Includes open and enclosed, single and multispeed, reversing and nonreversing types. Variations include controllers with a primary or secondary resistor, reactor, auto-transformer, partwinding, and stardelta starters. Excludes those devices which qualify for any "Specific application" item.

Synchronous motor controllers (1,000 volts or less)Armature and field controls for synchronous motors, starting at full or reduced voltage. Excludes those devices which qualify for any "Specific application" item.

Motor control centers (1,000 volts or less)-Factory-built customer-assembled control centers, including the sections and units sold separately.

Medium voltage nonsynchronous and synchronous motor controllers (over 1,000 through 7,200 volts)-Manual and magnetic devices for the control of squirrel cage, wound
rotor, and synchronous motors. Includes open and enclosed; combination and noncombination starters and contractors; full or reduced voltage; and reversing and nonreversing air break, vacuum break, and immersed. Excludes those devices which qualify for any "Specific application" item.
A.c. or d.c. friction brakes and clutches (all voltages)-All devices used to engage or control motion by slowing or stopping, provided the clutch or brake is operated or released electrically. Braking or clutch action may be controlled mechanically, hydraulically, or magnetically, using shoes or discs. Excludes dynamic braking controls.

## 3. Definitions-Continued

GENERAL PURPOSE CONTROLS—Continued
Electromechanical positioning sensors (all voltages)-A.c. or d.c. switches and sensors which respond to movement or position. Includes mechanical and air operated limited switches, and rotating CAM switches. Excludes those devices used in or covered by "solid state digital control systems" or are classified as "precision (1/8" gap or less) snap-acting switches."

Movement sensors (all voltages)-A device that detects if an object is moving in relation to the sensors. Such devices would include speed switches, encoders, resolvers, tachometers, etc.

Non-optical proximity sensors-An a.c. or d.c. device that detects a specified change in the energy field within the sensing zone of the switch, and causes the output to change its state. The energy field may be magnetic, electromagnetic, acoustical or dielectric.

Optical proximity sensors (all voltages) (photo-electrics)-A device that detects a specified change in light sensitivity (i.e., absence, presence, intensity) within the sensing zone of the switch, and causes output to change its state.
D.c. power circuit devices (all voltages)-Manual and magnetic devices sold separately for the control of d.c. power. Includes open and enclosed, combination and noncombination, full or reduced voltage, reversing or nonreversing, air brake oil immersed. Excludes those devices which qualify for any "Specific application" item.

Industrial control pushbuttons, selector switches, pilot lights, and foot switches (all voltages)-A.c. or d.c. manually operated devices designed primarily to operate in the control circuits or industrial applications. Includes control stations, reed devices, and rotary switches with control circuit ratings. Excludes metal mill and crane accessories and similar items incorporated in products covered by other categories, such as conversion kits to starters, and those designed for aircraft, appliances, business machines, computers, or elevator applications.

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Resistors and rheostats-Separate components and assemblies of carbon and metal resistors designed to function in a power or motor field circuit. Includes manual and motor operated rheostats, cast and wound metal resistors, and carbon pile resistors. Excludes resistors designed for use in electronics circuits.
A.c. and d.c. adjustable speed drive controls (all voltages)-The control portion of adjustable (regulated) speed drives, controlling motors by adjusting voltage or adjusting frequency. Includes single and multimotor drive controls, eddy current coupling drives, all elements of the power units (except motor generators), and all auxiliary controls sold as part of the drive system. Excludes all rotating equipment.

Packaged a.c. adjustable speed drive-All equipment required to adjust the speed or torque of an a.c. electric motor(s) by controlling both frequency and voltage applied to the motor(s). Includes rotating equipment.

Packaged d.c. adjustable speed drive-All equipment required to adjust the speed or torque of a d.c.electric motor(s) by controlling both frequency and voltage applied to the armature and/or field of the motor(s). Excludes rotating equipment.
A.c. and d.c. drive systems-An engineering system built to meet customer specifications, incorporating one or more power conversion modules; may control several motors in a coordinated manner. Includes a.c. and d.c. types. Excludes rotating equipment.

Solid-state contactors-All primarily solid-state devices designed to be used in the power circuit or control of ovens, furnaces, lighting, or other power consuming devices. This group also includes power switching devices used for turning motors on and off only. This does not include resistance welding controls, adjustable speed drive controls, and any other product which qualifies for inclusion in other "Specific application" or "General industry control" categories.

This group also includes solid-state braking devices. This does not include resistance welding controls, adjustable speed drive controls, and any other product which qualifies for inclusion in other "Specific application" or "General industry control" categories.

All other general industry devices and systems-Solid-state digital panels using either wired or retentive memory logic to provide data or control processes or machine functions systems, n.e.c.

Motor controller accessories-Those items which are sold separately but become part of a motor controller. Includes overload relays, auxiliary contacts, heater elements, mechanical interlocks, control transformers, kits to add pushbuttons, selector switches, pilot lights, separate controller enclosure and enclosure fittings, reset mechanisms, etc. Excludes motor circuit switches sold separately.

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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 <br> (Form MA334C) <br> Item codes <br> (a) | Economic Census - <br> Manufacturing Sector <br> Product codes <br> (b) |
| :---: | :---: |
| 2005 through 2035 | 3345120000 |
| 3007 through 3085 | 3345130000 |
| 3108 through 3118 | 3353131000 |
| 3305 through 3345 | 3353133000 |
| 3505 through 3510 | 3353135000 |
| 3705 through 3720 | 3353137000 |
| 3805 | 3353139000 |
| 3905 through 3945 | $335313 A 000$ |
| 4105 through 4130 | 3353141000 |
| 4305 through 4335 | 3353143000 |
| 4505 through 4595 | 3353146000 |
| 4708 and 4713 | 3353147000 |

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REFERENCE LIST

| FORM MA334C CONTROL INSTRUMENTS |  |  |
| :---: | :---: | :---: |
| Product code | Item code | Item Description |
|  |  | CONTROLS FOR MONITORING RESIDENTIAL AND COMMERCIAL ENVIRONMENTS |
| 3345120102 | 2005 | Temperature responsive (thermostats) |
| 3345120115 | 2010 | Igniters |
| 3345120221 | 2015 | Computerized energy control systems for buildings |
| 3345120224 | 2020 | Other automatic controls |
| 3345120225 | 2025 | Temperature responsive controls for major appliances |
| 3345120227 | 2030 | All other controls for appliances |
| 3345120229 | 2035 | Parts and components for controls for monitoring residential and commercial environments |
| 3345120000 | 2097 | Total controls for monitoring residential and commercial environments (sum of item codes 2005-2035) |
|  |  | PROCESS CONTROL INSTRUMENTS |
| 3345130101 | 3007 | Unified electronic systems: controllers |
| 3345130106 | 3010 | Unified electronic systems: other |
| 3345130107 | 3017 | Unified electronic systems: auxiliary stations and analog computer devices |
| 3345130109 | 3020 | Nonunified electronic systems |
| 3345130111 | 3025 | Industrial multifunction process computers |
| 3345130127 | 3030 | Pneumatic systems and annunciators |
| 334513022G | 3035 | Other industrial type instruments |
| 334513021F | 3040 | Continuous process instruments |
| 334513021V | 3045 | Instruments for all process variables not listed above |
| 334513032S | 3050 | Parts for process control instruments |
| 3345130240 | 3055 | Temperature measuring instruments: electrical and electronic measuring types |
| 3345130248 | 3060 | Other temperature measuring instruments |
| 3345130249 | 3065 | Primary temperature sensors, excluding aircraft types: thermocouples |
| 3345130251 | 3070 | Primary temperature sensors, excluding aircraft types: other |
| 3345130264 | 3075 | Pressure and draft measuring instruments |
| 3345130290 | 3080 | Flow and liquid level measuring instruments: differential pressure types |
| 3345130293 | 3085 | Humidity instruments |
| 3345130000 | 3097 | Total process control instruments (sum of item codes 3005-3085) |
|  |  | POWER CIRCUIT BREAKERS |
| 3353131101 | 3108 | Power circuit breakers (sold separately) for use in metal-clad switchgear (oil and oilless), over 1,000 volts (report in number of breakers) |
| 3353131103 | 3110 | All other power circuit breakers, sold separately |
| 3353131129 | 3118 | Parts for all power circuit breakers |
| 3353131000 | 3197 | Total power circuit breakers (sum of item codes 3105-3115) |
|  |  | LOW VOLTAGE PANELBOARDS, DISTRIBUTION BOARDS, AND OTHER SWITCHING AND INTERRUPTING DEVICES |
| 3353133104 | 3305 | Panelboards (include enclosing cabinets), circuit breaker |
| 3353133201 | 3310 | Panelboards (include enclosing cabinets), fusible |

CURRENT INDUSTRIAL REPORTS SERIES
REFERENCE LIST-Continued

| FORM MA334C |  |  |
| :---: | :---: | :---: |
| Product code | Item code | Item Description |
|  |  | LOW VOLTAGE PANELBOARDS, DISTRIBUTION BOARDS, AND OTHER SWITCHING AND INTERRUPTING DEVICES-Continued |
| 3353133207 | 3315 | Distribution switchboards, fusible |
| 3353133211 | 3320 | Distribution switchboards, circuit breaker |
| 3353133216 | 3325 | Knife switches, enclosed: heavy duty |
| 3353133225 | 3330 | Knife switches, enclosed: circuit breaker |
| 3353133227 | 3335 | Knife switches, enclosed: other |
| 3353133233 | 3340 | Other switches |
| 3353133237 | 3345 | Other low voltage switchgear apparatus |
| 3353133000 | 3397 | Total low voltage panelboards, distribution boards, and other switching and interrupting devices (sum of item codes 3305-3345) |
|  |  | FUSES AND FUSE EQUIPMENT |
| 3353135109 | 3505 | Nonrenewable plug and cartridge fuses |
| 3353135113 | 3510 | Other fuses and open fuse material (including renewable, cutouts, clips, bases, etc.) |
| 3353135000 | 3597 | Total fuses and fuse equipment (sum of item codes 3505 and 3510) |
|  |  | MOLDED CASE CIRCUIT BREAKERS |
| 3353137105 | 3705 | Molded case circuit breakers, industrial type |
| 3353137112 | 3710 | Molded case circuit breakers, residential or light duty type |
| 3353137117 | 3715 | Other: Marine, Navy, aircraft, and aerospace |
| 3353137131 | 3720 | All other types, including automotive and electronic |
| 3353137000 | 3797 | Total molded case circuit breakers (sum of item codes 3705-3720) |
| 3353139000 | 3805 | Ducts, including plug-in units and accessories (not exceeding 1,000 volts), consisting of enclosed sectionalized prefabricated bus bars rated 20 amperes or more and associated structures and fittings (report quantity in number of units) |
|  |  | SWITCHGEAR, EXCEPT DUCTS |
| 335313A101 | 3905 | Automatic and manual control panels |
| 335313A204 | 3910 | Metal clad switchgear (using power circuit breakers, oil and oil-less), all voltages above 1,000 volts, up to and including 38 kV , excluding load interrupter switchgear |
| $335313 A 307$ | 3915 | Metal enclosed load interrupter switchgear |
| $335313 A 311$ | 3920 | Metal enclosed low voltage power circuit breaker |
| $335313 A 313$ | 3925 | Metal enclosed bus when sold separately |
| 335313A321 | 3930 | Power switching equipment, indoor and outdoor |
| 335313A332 | 3935 | Connectors, all types (power and ground, overhead transmission and distribution, and transmission and distribution |
| 335313A335 | 3940 | Power fuses, fuse links, and distribution cutouts |
| 335313 A337 | 3945 | Other switchgear devices |
| 335313A000 | 3997 | Total switchgear, except ducts (sum of item codes 3905-3945) |

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REFERENCE LIST-Continued

| FORM MA334C |  |  |
| :---: | :---: | :---: |
| Product code | Item code | Item Description |
|  |  | RELAYS |
| 3353141101 | 4105 | Industrial control relays (all types) |
| 3353141112 | 4110 | General purpose: Over 100 MV and sealed |
| 3353141117 | 4115 | General purpose: Over 100 MV and NOT sealed |
| 3353141153 | 4120 | High performance military/aerospace/aircraft relays |
| 3353141180 | 4125 | Timing relays (timers) |
| 3353141183 | 4130 | All other general purpose and special purpose relays, including parts |
| 3353141000 | 4197 | Total general purpose and other relays (sum of item codes 4105-4130) |
|  |  | SPECIFIC PURPOSE INDUSTRIAL CONTROLS |
| 3353143301 | 4305 | U.S. Coast Guard/Marine auxiliary controls and accessories |
| 3353143307 | 4310 | Crane and hoist controls, constant and adjustable voltage (including operators' desks and stations) |
| 3353143311 | 4315 | Definite purpose contactors and starters |
| 3353143317 | 4320 | Stand alone motion controllers: computer numerical controls |
| 3353143323 | 4325 | Stand alone motion controllers: other (include robotic controls) |
| 3353143328 | 4330 | Programmable controllers |
| 3353143333 | 4335 | Other specific or special purpose a.c. and d.c. controllers, other definite purpose devices (Specify kind) |
| 3353143000 | 4397 | Total specific purpose industrial controls and power circuits devices (sum of item codes 4305-4335) |
|  |  | GENERAL PURPOSE CONTROLS |
| 3353146101 | 4505 | A.c. full voltage noncombination magnetic starters ( 1,000 volts or less) |
| 3353146109 | 4510 | A.c. full voltage combination magnetic starters (1,000 volts or less) |
| 3353146111 | 4515 | Disconnect switches |
| 3353146117 | 4520 | A.c. full voltage manual controllers (1,000 volts or less) |
| 3353146123 | 4525 | A.c. contactors (1,000 volts or less) |
| 3353146131 | 4530 | Motor control centers |
| 3353146137 | 4535 | Brakes and clutches |
| 3353146142 | 4540 | Other general purpose controls |
| 3353146143 | 4545 | Electromedical positioning switches |
| 3353146146 | 4550 | Movement sensors |
| 3353146149 | 4553 | Nonoptical proximity sensors |
| 3353146152 | 4555 | Optical proximity sensors |
| 3353146169 | 4560 | Pushbuttons, under 30 mm |
| 3353146171 | 4565 | Pushbuttons, 30 mm and larger |
| 3353146176 | 4570 | Controls for a.c. packaged drives |
| 3353146179 | 4575 | Controls for d.c. packaged drives |
| 3353146182 | 4580 | A.c. drives systems |
| 3353146185 | 4585 | D.c. drives systems |
| 3353146188 | 4590 | Solid state motor controllers |
| 3353146192 | 4595 | All other general industry devices |
| 3353146000 | 4598 | Total general purpose industrial controls and power circuit devices (sum of item codes 4505-4595) |

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


| U.S. DEPARTMENT OF COMMERCE |  |  |  |  | Identification Number (ID) (Enter if not shown, correct if wrong)$01234567890$ |  |  | $\begin{array}{r} \text { Page } \\ 3 \end{array}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PARTI-Continued |  |  |  |  |  |  |  |  |  |
| Item <br> (Product code - Description) | Item code | Report period | SHIPM <br> Quantity. <br> \{no. of units | ENTS <br> Value $\{\$ 1000\}$ | \{Do not report imported or purchased products on which your company performed no further fabrication or |  |  |  |  |
| 3345130111-Industrial multifunction process computers | 3025 | 2007 | $\begin{gathered} 1 \\ X X X X X \end{gathered}$ | 2 | 3 | 4 | 5 |  | 6 |
|  |  | 2006 | XXXXX |  |  |  |  |  |  |
|  |  | 2005 | Xxxxx |  |  |  |  |  |  |
| 3345130127-Pneumatic systems and annunciators | 3030 | 2007 | XXXXX |  |  |  |  |  |  |
|  |  | 2006 | XXXXX |  |  |  |  |  |  |
|  |  | 2005 | XXXXX |  |  |  |  |  |  |
| 334513022G-Other industrial type instruments | 3035 | 2007 | XXXXX |  |  |  |  |  |  |
|  |  | 2006 | XXXXXX |  |  |  |  |  |  |
|  |  | 2005 | xxxxx |  |  |  |  |  |  |
| 334513021 F-Continuous process instruments | 3040 | 2007 | xxxxx |  |  |  |  |  |  |
|  |  | 2006 | $x \times x \times x$ |  |  |  |  |  |  |
|  |  | 2005 | XXXXX |  |  |  |  |  |  |
| 334513021 V -Instruments for all process variables not listed above | 3045 | 2007 | XXXXX |  |  |  |  |  |  |
|  |  | 2006 | $x X X X X$ |  |  |  |  |  |  |
|  |  | 2005 | XXXXX |  |  |  |  |  |  |
| 334513032 S-Parts for process control instruments | 3050 | 2007 | $x \times x \times x$ |  |  |  |  |  |  |
|  |  | 2006 | xxxxx |  |  |  |  |  |  |
|  |  | 2005 | XXXXX |  |  |  |  |  |  |
| 3345130240-Temperature measuring instruments: electrical and electronic measuring types | 3055 | 2007 | XXXXX |  |  |  |  |  |  |
|  |  | 2006 | $x \times x \times x$ |  |  |  |  |  |  |
|  |  | 2005 | XxXXX |  |  |  |  |  |  |
| 3345130248-0ther temperature measuring instruments | 3060 | 2007 | XXXXX |  |  |  |  |  |  |
|  |  | 2006 | XXXXX |  |  |  |  |  |  |
|  |  | 2005 | XXXXX |  |  |  |  |  |  |
| 3345130249-Primary temperature sensors, excluding aircraft types: thermocouples | 3065 | 2007 | XXXXX |  |  |  |  |  |  |
|  |  | 2006 | $x \times x \times x$ |  |  |  |  |  |  |
|  |  | 2005 | XXXXX |  |  |  |  |  |  |
| 3345130251-Primary temperature sensors, excluding aircraft types: other | 3070 | 2007 | XXXXX |  |  |  |  |  |  |
|  |  | 2006 | $x \times x \times x$ |  |  |  |  |  |  |
|  |  | 2005 | $x \times x \times x$ |  |  |  |  |  |  |











PART I-Continued


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. |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| A. $\square$ Purchased from | Name of company |  | Address (Number and street, city, State, ZIP Code) | Date of change |
|  |  |  |  |  |
| B. $\square$ Sold to |  |  |  |  |
| c. $\square$ Plant discontinued all operations |  | Date |  |  |
| D. $\square$ Plant operations no longer covered by this survey - Describe in "Remarks" the products currently produced. |  |  |  |  |
| E. $\square$ 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?

$$
\square \text { Yes } \quad \square \text { No-Indicate reasons for difference in "Remarks." }
$$

PARTIV Remarks

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

| Signature of authorized official | Title | Date |
| :--- | :--- | :--- |

Complete and return this form in the envelope provided or to:

Bureau of the Census 1201 East Tenth Street Jeffersonville, IN 47132

NOTE: Please make a photocopy of this for your records.

