



PRODUCT: Dell Precision™ M90, Dell Precision™ M90n  
REGULATORY MODEL: PP05XA  
EFFECTIVE DATE: April 15, 2008

Dell Inc.  
www.dell.com

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## I. PRODUCT SAFETY<sup>1</sup>

The product has been certified and bears the Mark, as applicable, of the Product Safety authorities as indicated below.

Country/Region	Authority or Mark
Argentina	IRAM
Australia	NATA <sup>†</sup>
Cambodia	ISC <sup>†</sup>
Canada	SCC
China	CNCA or CCC
European Union	CE
Germany	TUV
IECEE	IECEE CB
Israel	SII
Mexico	NYCE or NOM
Nigeria	SONCAP
Norway	NEMKO
Russia	GOST
Saudi Arabia	SASO
Singapore	Safety Registration Scheme <sup>†</sup>
South Africa	SABS
South Korea	KETI (eK) <sup>†</sup>
Taiwan	BSMI
United States	NRTL

<sup>1</sup> The above-listed Product Safety certifications may vary depending upon the location of the Dell factory and specific product configuration. Certification marks may not be applied on products for countries outside the purchaser's country.

<sup>†</sup> Product Safety certification is specific to the AC Adapter only.



## II. ELECTROMAGNETIC COMPATIBILITY<sup>2</sup>

The product has been certified and bears the Mark, as applicable, of the EMC authorities as indicated below.

Country/Region	Authority or Mark	Class
Australia / New Zealand	ACMA or C-Tick	Class B
Canada	ICES	Class B
China	CNCA or CCC	Class B
European Union	CE	Class B
Israel	SII	Class B
Japan	VCCI	Class B
Norway	NEMKO	Class B
Russia	GOST	Class B
Saudi Arabia	SASO	Class B
South Africa	SABS	Class B
South Korea	BCC	Class B
Taiwan	BSMI	Class B
United States	FCC	Class B
Vietnam	ICT	Class B

## III. ERGONOMICS, ACOUSTICS AND HYGIENICS<sup>3</sup>

The product has been certified and bears the Mark, as applicable, of the Ergonomics, Acoustics and Hygienics authorities as indicated below.

Country/Region	Authority or Mark
Germany	GS
Russia	GOST

## IV. POWER CORDS AND USER DOCUMENTATION

Dell products are provided with the power cord and user documentation suitable for the intended country of delivery. Products that are relocated to other countries should use nationally certified power cords and plugs to ensure safe operation of the product. Contact Dell to determine if alternate power cords or user documentation in other languages is available for your market.

## V. DATASHEET RESPONSIBLE PARTY NAME AND ADDRESS

Dell Inc.

Department: Global Regulations and Standards

MS: PS4-30

Round Rock, Texas 78682, USA

512-338-4400

[Regulatory\\_Compliance@Dell.com](mailto:Regulatory_Compliance@Dell.com)

<sup>2</sup> The above-listed EMC certifications may vary depending upon the location of the Dell factory and specific product configuration. Certification marks may not be applied on products for countries outside the purchaser's country.

<sup>3</sup> The above-listed Ergonomics, Acoustics and Hygienics certifications may vary depending upon the location of the Dell factory and specific product configuration. Certification marks may not be applied on products for countries outside the purchaser's country.



## VI. TRADE (IMPORT/EXPORT) COMPLIANCE DATA

System US Harmonized Tariff System (USHTS) Number	8471.30.0100
System US Export Control Classification Number (ECCN)	4A994

For additional questions regarding importing & exporting classification of Dell products, please send an e-mail to: [US\\_Export\\_Classification@Dell.com](mailto:US_Export_Classification@Dell.com)

## VII. SYSTEM DIMENSION AND WEIGHT

Depth, cm	Width, cm	Height, cm	Weight, kg
28.8	39.3	4.7	3.6 (May vary with additional options installed)

## VIII. DECLARATIONS AND CERTIFICATIONS

This system received the following approvals and may be labeled with one or more of these marks depending on point of purchase:

Approvals	Certificate #	Yes / No / N/A
USA: Energy Star capable	N/A	Yes
USA: FEMP Executive Order 1322	N/A	Yes
China: China Energy Certification Program (CECP)	BG04-0146-2006	Yes

Through internal design controls and supply chain declarations, this system<sup>4</sup> has been verified to comply with the EU RoHS Directive<sup>5</sup>. One or more components in this system may be available as factory installed options that do not meet EU RoHS requirements. For details, please see [www.dell.com/rohsinfo](http://www.dell.com/rohsinfo).

<sup>4</sup> Options from Dell Custom Factory Integration (CFI), Software and Peripherals (S&P) and Customer Kits may not be RoHS compliant.

<sup>5</sup> EU Directive on the Restriction of the use of certain Hazardous Substances in electrical and electronic equipment (2002/95/EC) dated January 27, 2003.



## IX. PERFORMANCE DATA

### System Configuration

The Energy Consumption and Declared Noise Emissions data is based on a configuration including one 2.16GHz Intel Pentium-M processor, 512 KB memory, 80GB hard drive.

### Energy Consumption<sup>6</sup>

Service Level	Energy Consumption (Wattage)	Description of Service Level	Energy Save Requirements Meets EU Eco label (2001/686/EC and 2001/687/EC) Yes / No / N/A
*Maximum	80.64	The system is running programs to maximize the power consumption.	N/A
Typical	N/A	The system is performing routine task.	N/A
Low-power or "Sleep" Mode	0.57	The system is in a low-power saving mode.	N/A
Off	0.57	The system is turned off but is still connected to its AC power source.	Yes
External Power Supply	N/A	AC adapter is connected to mains with system detached otherwise known as "No-load" condition.	N/A

\*Maximum **Energy Consumption** results are based solely upon the laboratory testing of the **System Configuration** listed above.

Energy consumption is tested at 230 Volts / 50 Hz. Heat dissipation is calculated based on the measured watts, assuming the service level is attained for one hour. Off data is not meant to show compliance to US Executive Order 13221. When applicable, Dell product information related to US Executive Order 13221 may be obtained at: <http://oahu.lbl.gov/index.html>.

<sup>6</sup> This document is informational only and reflects laboratory performance. Your product may perform differently, depending on the software, components and peripherals you ordered. Accordingly, the customer should not rely upon this information in making decisions about electrical tolerances or otherwise. No warranty as to accuracy or completeness is expressed or implied.



## Declared Noise Emissions in accordance with ISO 9296

Service Level	Sound Power ( $L_{WA,dr}$ , bels) (1 bel=10 decibels, re $10^{-12}$ Watts)	Sound Pressure Operator Position ( $L_{pAmr}$ , decibels) (re $2 \times 10^{-5}$ Pa)
Floppy Drive Accessing	N/A	N/A
Hard Drive Accessing	3.3	22.1
CD Drive Accessing	5.2	45.2
Idle	3.2	20.1

## X. PRODUCT MATERIALS INFORMATION<sup>7</sup>

### Restricted Substances

This Dell product does **NOT** contain any of the following substances (in concentrations exceeding legal threshold limits):

- Asbestos
- Azo dyes/colorants in components that come into direct contact with human skin
- Cadmium and its compounds (except for use in applications exempted by the EU RoHS Directive)
- Class I and Class II CFCs (chlorofluorocarbons) and HCFCs (hydrofluorocarbons)
- Chloroparaffins, short chained (10-13 carbon chain)
- Chromium VI and its compounds (except for use in applications exempted by the EU RoHS Directive)
- Halogenated dioxins or furans (i.e. polychlorinated dibenzodioxines, polychlorinated dibenzofurans)
- Lead and its compounds (except for use in applications exempted by the EU RoHS Directive)
- Mercury (except for use in applications exempted by the EU RoHS Directive)
- Nickel and its compounds in components that are likely to result in prolonged skin exposure
- PCBs (polychlorobiphenyls) or PCTs (polychloroterphenyls)
- PBBs (polybromobiphenyls) or PBDEs (polybrominated diphenylethers)
- PVC (polyvinyl chloride) in plastic parts greater than 25 grams
- Polychlorinated naphthalenes (PCNs)
- Tributyl tin (TBT) and triphenyl tin (TPT) compounds

For information on Japan RoHS (J-MOSS) chemical disclosures: [www.dell.com/japan\\_rohs](http://www.dell.com/japan_rohs).

### Additional Materials Information

- The cables may use PVC as an insulating material to ensure product safety
- The case material is PC+ABS
- Product may contain post-industrial recycled content (plastics, metal, glass)

<sup>7</sup> **Waste Handling.** Local regulations should be observed when disposing of this product due to the presence of the materials and substances as listed above.



### Flame Retardants Used in Mechanical Plastic Parts > 25 grams, Keycaps and Motherboards

Part	Flame Retardant	ISO 1043-4
Motherboard	TBBPA	FR (4)
Mechanical Plastic Parts > 25 grams PC+ABS	Bisphenol A & Diphenylphosphate	FR (40)

## XI. PACKAGING

No CFCs (chlorofluorocarbons), HCFCs (hydrofluorocarbons) or other ozone depleting substances are used in packaging material. Chromium, lead, mercury, or cadmium are not intentionally added to packaging materials and are not present in a cumulative concentration greater than 100 ppm as incidental impurities. No halogenated plastics or polymers are used for packaging material. Dell complies with the EU Directive 94/62/EEC.

Packaging Materials	Weight, kg
PE-LD	0
Corrugated Cardboard	Option Dependent

Printed user documentation is bleached in a chlorine-free process. (Europe Only)

## XII. BATTERIES

Batteries in this product are not based on mercury, lead or cadmium technologies. The batteries used in this product are in compliance with EU Directive 91/ 157/ EEC, EU Directive 93/ 86/ EEC and EU Directive 98/ 101/ EEC.

The product documentation includes instructional information on the proper removal and disposal of the batteries used in this product. Below is a listing of batteries present in the product:

Battery Description – Internal Batteries	Battery Type
3-V CR2032 coin cell	Lithium
Rechargeable Battery Pack 6 or 9 cell	Lithium Ion

## XIII. DESIGN FOR ENVIRONMENT

### Longevity and Upgrading

Dell systems are, when applicable, designed for easy assembly, disassembly, and servicing. To extend the life of your system, you can install or upgrade certain system components (e.g., microprocessor, memory, expansion cards, and storage devices). Spare parts are available after the end of production for up to five years, or otherwise through the warranty period.

### Recyclability

For recyclability, this system incorporates the following design guidelines:

- EU WEEE mark is applied to products sold in Europe, EU recycling information can be found at [www.euro.dell.com/recycling](http://www.euro.dell.com/recycling)
- Minimal use of non-separable connections, such as gluing and welding between different materials.
- Minimal use of composite structure materials.
- Mechanical plastic parts greater than 100 grams consist of one material or of easily separable materials.



#### **XIV. RECYCLING/ END-OF-LIFE SERVICE INFORMATION**

Take back and recycling services are offered for this product in certain countries. If you want to dispose of system components, contact Dell for instructions by emailing [recycling\\_emea@dell.com](mailto:recycling_emea@dell.com) or visit [www.dell.com/recyclingworldwide](http://www.dell.com/recyclingworldwide) and select the relevant country.

#### **XV. DELL CORPORATE ENVIRONMENTAL INFORMATION**

Information on Dell's Environmental initiatives, policies, programs and goals can be found at [www.dell.com/environment](http://www.dell.com/environment).

Product Safety, EMC and Datasheets for Dell products are located at:  
[www.dell.com/regulatory\\_compliance\\_datasheets](http://www.dell.com/regulatory_compliance_datasheets)