

Product environmental attributes - THE ECO DECLARATION

The declaration may be published only when all rows and/or fields marked with an * are filled-in (n.a. for not applicable).

Additional information regarding each item may be found under P14.

Brand *	Hewlett-Packard	Logo
Company name *	Hewlett-Packard Company	
Contact information *	Hans Wendschlag http://www.hp.com/hpinfo/globalcitizenship/environment/contactem ail.html	WP)
Internet site *	http://www.hp.com/hpinfo/globalcitizenship/environment/	
Additional information		

The company declares (based on product specification or test results based obtained from sample testing), that the product conforms to the statements given in this declaration.					
Type of product *	Display				
Commercial name *	HP EliteDisplay E231 23-inch LED Backlit Monitor				
Model number *	E231				
Issue date *	4/1/2013				
Intended market *	☐ Global ☐ Europe ☐ Asia, Pacific & Japan ☐ Americas ☐ Other				
Additional information					

This is an uncontrolled copy when in printed form. Please refer to the contact information for the latest version.

Quality	Quality Control		
Item		Yes	No
QC1 *	The company enforces an internal quality control scheme to ensure the correctness of this eco declaration		
QC2 *	The company is a member of an eco declaration system that enforces regular independent quality control such as organized by IT-Företagen (see www.itecodeclaration.org).	ol 🔀	

Model number *	E231		
Issue date *	4/1/2013	Logo	(II)

Product	luct environmental attributes - Legal requirements			met
Item		Yes	No	n.a.
P1	Hazardous substances and preparations			
P1.1*	Products do not contain more than; 0.1% lead, 0.01% cadmium, 0.1% mercury, 0.1% hexavalent chromium,			
	0.1% polybrominated biphenyls (PBB) or 0.1% polybrominated diphenyl ethers (PBDE). (See legal			
	reference and Note B1)			
P1.2*	Products do not contain Asbestos (see legal reference).	\boxtimes		
	Comment: Legal reference has no maximum concentration value.			
P1.3*	Products do not contain Ozone Depleting Substances: Chlorofluorocarbons (CFC),	\boxtimes		
	hydrobromofluorocarbons (HBFC), hydrochlorofluorcarbons (HCFC), Halons, carbontetrachloride, 1,1,1-			
	trichloroethane, methyl bromide (see legal reference). Comment: Legal reference has no maximum			
D4 4*	concentration values.		_	
P1.4*	Products do not contain more than; 0.005% polychlorinated biphenyl (PCB), 0.005% polychlorinated	\boxtimes		
P1.5*	terphenyl (PCT) in preparations (see legal reference). Products do not contain more than 0.1% short chain chloroparaffins (SCCP) with 10-13 carbon atoms in the			
P1.5		\boxtimes		
P1.6*	chain containing at least 48% per mass of chlorine in the SCCP (see legal reference). Textile and leather parts with direct skin contact do not contain Tri-(2,3,-dibromopropyl)-phosphate (TRIS),			
F 1.0	Tris-(aziridinyl)-phosphineoxide (TEPA), polybrominated biphenyl (PBB) (see legal reference).	\boxtimes		
	Comment: Legal reference has no maximum concentration values.			
P1.7*	Textile and leather parts with direct skin contact do not contain more than 0.003% Azo colorants that split		$\overline{}$	
1 1.7	aromatic amines. (See legal reference and Note B1)		ш	Ш
P1.8*	Wooden parts do not contain arsenic and chromium as a wood preservation treatment as well as		$\overline{}$	$\overline{\square}$
1 1.0	pentachlorophenol and derivatives (see legal reference).	ш	Ш	
	Comment: Legal reference has no maximum concentration values.			
P1.9*	Parts with direct and prolonged skin contact do not release nickel in concentrations above 0.5	\square		
	microgram/cm²/week (see legal reference).			ш
	Comment: Max limit in legal reference when tested according to EN1811:1998.			
P1.10*	REACH Article 33 information about substances in articles is available at (add URL or mail contact):	\boxtimes	\Box	
	http://www.hp.com/hpinfo/globalcitizenship/environment/productdata/reachdesktop-pcs.html			ш
P2	Batteries			
P2.1*	If the product contains a battery or an accumulator, it is labeled with the disposal symbol and if it contains	$\overline{}$		
. 2	more than 0.0005% of mercury (for button cells only) by weight, or more than 0.004% of lead, it shall be	ш		Ш
	marked with the chemical symbol for the metal concerned, Hg or Pb. Information on proper disposal is			
	provided in user manual. (See legal reference)			
P2.2*	Button cells used in the product do not contain more than 2% by weight of mercury. Other batteries or		\square	
	accumulators do not contain more than 0.0005% of mercury or 0.002% of cadmium. (See legal reference)	ш		ш
P2.3*	Batteries and accumulators are easily removable by either users or service providers (as dependent on the			\square
	design of the product). Exception: Batteries that are permanently installed for safety, performance, medical			
	or data integrity reasons do not have to be "easily removable". (See legal reference)			
P3	Safety, EMC connection to the telephone network and labeling			
P3.1*	The product complies with legally required safety standards as specified (see legal reference).	\boxtimes	П	
P3.2*	The product complies with legally required standards for electromagnetic compatibility (see legal reference).		$\overline{}$	$\overline{}$
P3.3*	If product is intended for connection to a public telecom network or contains a radio transmitter, it complies		₩	∺
F3.3	with legally required standards for radio and telecommunication devices (see legal reference).			
P3.4*	The product is labeled to show conformance with applicable legal requirements (see legal reference).		$\overline{}$	$\overline{}$
	<u> </u>			<u> Ш</u>
P4	Consumable materials			<u> </u>
P4.1*	If a photo conductor (drum, belt etc.) is used in the product, it does not contain cadmium max 0.01% (see			\bowtie
D4.0*	legal reference and Note B1).			
P4.2*	If ink/toner is used in the product, it does not contain cadmium max 0.1% by weight (see legal reference).			\boxtimes
P4.3*	If the ink/toner formulation/preparation is classified as hazardous according to applicable regulations, the			\boxtimes
	product/packaging is adequately labeled and a Safety Data Sheet (SDS) in accordance with these			
	requirements is available (see legal reference).			
P5	Product packaging			
P5.1*	Packaging and packaging components do not contain more than 0.01% lead, mercury, cadmium and	\boxtimes		
D= 0:	hexavalent chromium by weight of these together.			
P5.2*	Plastic packaging material is marked according to ISO 11469 referring ISO 1043 (see legal reference).	\boxtimes		
P5.3*	The product packaging material is free from ozone depleting substances as specified in the Montreal	\boxtimes		
	Protocol (see legal reference).			
	Comment: Legal reference has no maximum concentration values.			

Note B1: Restriction applies to the homogeneous material, unless other specified and expressed in weight %.

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Issue date *	4/1/2013	Logo

Product	environmental attributes - Market requirements - Environmental conscious design Re	quire	ment	met
Item	*=mandatory to fill in. Additional information regarding each item may be found under P14.	Yes	No	n.a.
P6	Treatment information			
P6.1*	Information for recyclers/treatment facilities is available (see legal reference).	\boxtimes		
P7	Design Disassembly, recycling			
P7.1*	Parts that have to be treated separately are easily separable	\square		
P7.2*	Plastic materials in covers/housing have no surface coating.	$\overline{\mathbb{X}}$	Ħ	
P7.3*	Plastic parts >100g consist of one material or of easily separable materials.			
P7.4*	Plastic parts >25g have material codes according to ISO 11469 referring ISO 1043.			
P7.5	Plastic parts are free from metal inlays or have inlays that can be removed with commonly available tools.		П	
P7.6*	Labels are easily separable. (This requirement does not apply to safety/regulatory labels).			
	Product lifetime			
P7.7*	Upgrading can be done e.g. with processor, memory, cards or drives			\boxtimes
P7.8*	Upgrading can be done using commonly available tools			\boxtimes
P7.9.	Spare parts are available after end of production for: 5 years			
P7.10	Service is available after end of production for: years			\boxtimes
	Material and substance requirements			
P7.11*	Product cover/housing material type:			
	Material type: PMMA Material type: PMMA Material type:			
P7.12	Electrical cable insulation materials of power cables are PVC free.		\boxtimes	
P7.13	Electrical cable insulation materials of signal cables are PVC free		\boxtimes	
P7.14	All cover/housing plastic parts >25g are free from chlorine and bromine.	\boxtimes		
P7.15	All printed circuit boards (without components) >25g are halogen free. as defined in IEC61249-2-21. (See Note B2)			
P7.16	Flame retarded plastic parts >25g in covers / housings are marked according ISO 1043-4:			
	Marking: ABS, PMMA		ш	
P7.17	Alt. 1 Chamical appointations of flame retardants in printed circuit boards > 25g (without components):			
	Chemical specifications of flame retardants in printed circuit boards >25g (without components): TBBPA (additive), TBBPA (reactive), Other; chemical name: , CAS #:		Ш	Ш
	TDDI A (additive) , TDDI A (reactive) , Other, chemical marile. , OAO #.			
	Alt. 2			
	Chemical specifications of flame retardants in printed circuit boards (without components) >25g according			\boxtimes
D7.40	ISO 1043-4:			
P7.18	Alt. 1 Flame retarded plastic parts >25g contain the following flame retardant substances/preparations in			
	concentrations above 0.1%:		ш	
	Comment: No legal limits exist, this is a market requirement.			
	1. Chemical name: , CAS #:			
	2. Chemical name: , CAS #:			
	3. Chemical name: , CAS #:			
	Chemical specifications of flame retardants in plastic parts >25g according ISO 1043-4:			
				\boxtimes
P7.19	Plastic parts >25g are free from flame retardant substances/ preparations above 0.1% classified as R45, R40, R46, R48, R50, R51, R53, R60, R61 and any combination of these (See Note B3)			
P7.20	Of total plastic parts' weight >25g, recycled material content is 17.4%.			
P7.21	Of total plastic parts' weight >25g, biobased material content is 0% .			
P7.22	Light sources are free from mercury	\boxtimes		
	If mercury is used specify: Number of lamps: and max. mercury content per lamp: mg			
P8	Batteries			
P8.1*	Battery chemical composition:			
P8.2	Batteries meet the requirements of the following voluntary program/s:			-1×1

Note B2: IEC61249-2--21 has maximum limits for chlorine and bromine but does not address fluorine, iodine and astatine which are included in the group of halogens.

Note B3: 'Starting from January 2009, Risk phrases can be replaced by Hazard phrases according to the Globally Harmonized System (GHS), mandatory by December 2010.

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Product environr	mental attributes - Market requirements (continued)		Requirement met

Product environmental attributes - Market requirements (continued) Requirement met						met			
Item								n.a.	
P9	Energy consumpt	ion							
9.1	For the product the	following power levels	or energy consump	tions are reporte	ed:				
Energy mo	de *	Power level at 100 V AC	Power level at 115 V AC	Power level 230 V AC	at Refere modes	ence / Standard and test method		nergy	
ENERGY S (System Id	STAR® On Mode * le)	21.10 W	20.9 W	21.4 W		GY STAR [®] Progra ements for Comp 0		ors:	
ENERGY S Sleep Mod	STAR® Low Power e *	0.21 W	0.2 W	0.27 W		GY STAR [®] Progra ements for Comp 0		ors:	
ENERGY S	STAR® Off / Off Mode*	0.12 W	0.12 W	0.17 W		GY STAR [®] Progra ements for Comp 0		ors:	
Display res	solution*: 1080*192	Megapixels			Requir Ver. 6.	-	uter Monit	ors:	
Default tim	e to enter energy sa	ve mode: minu	utes			GY STAR [®] Progra ements for Comp		. 6.0	
P9.2*	Information about t	he energy save functio	n is provided with th	e product.	•		\boxtimes		
P9.3*		the energy requirement version: 6.0 Product ca		oluntary program	n/s:		\boxtimes		
	Others specify:								\square
P10	Emissions	Declared according to	100 0206						
P10.1		Mode description	150 9296	Declared		Declared A-weigh	-ed		
1 10.1	Wood	loue description		A-weighted sound power		pressure level $L_{\scriptscriptstyle I}$	Am (dB)		
				level $L_{W extsf{Ad}}$ (B)		sktop (only i	ander pos f product		
					or Desk	ope ope	rator atte	nded)	
	Idle		,	•					\boxtimes
	Operation		,	•					
	Other mode								
	Measured according	g to: SO7779	ECMA-74	I.					<u>~~</u>
	Other (only if not covered by ECMA-74 with L _{pAm} measurement distance m)								
P10.2	0.2 The product meets the acoustic noise requirements of the following voluntary program/s:								

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Product e	duct environmental attributes - Market requirements (continued)				
Item	·	Yes	No	n.a.	
	Chemical emissions from printing products				
P10.3*	Test performed according to ECMA-328 (ISO/IEC 28360) standard , other specify:			\boxtimes	
P10.4	Typical emission rate (print phase) is (mg/h):			\boxtimes	
	Dust Ozone Styrene Benzene TVOC				
P10.5	Chemical emission requirements of the following voluntary program/s are met for :			X	
	Dust Ozone Styrene Benzene TVOC				
	Electromagnetic emissions				
P10.6	Computer display meets the requirement for low frequency electromagnetic fields of the following voluntary				
	program/s:				
	Consumable materials for printing products				
	A Safety Data Sheet (SDS) is available for the ink/toner preparation, even if not legally required (see P4.3).			\boxtimes	
	Paper containing post-consumer recycled fibers can be used, provided that it meets the requirements of EN12281.				
P11.3*	2-sided (duplex) printing/copying is an integrated product function.			\boxtimes	
	Ergonomics for computing products				
P12.1*	The display meets the ergonomic requirements of ISO 9241-307 for visual display technologies.	\boxtimes			
P12.2*				\boxtimes	
	Packaging and documentation				
	Product packaging material type(s): PAPER/Paper weight (kg): 0.75				
	Product packaging material type(s): PLASTIC/EPS (Expanded Polystyrene) weight (kg): 0.449				
	Product packaging material type(s): <i>PLASTIC/EPE-Expanded Polyethylene</i> weight (kg): <i>0.026</i> Product packaging material type(s): <i>PLASTIC/Other plastics unknown</i> weight (kg): <i>0.003</i>				
	Product plastic packaging in free from PVC.				
	Specify media for user and product documentation (tick box):			+	
	Electronic , Paper , Other				
1	fiber: 10%			Ш	
	User and product documentation do not contain chlorine bleached paper	\boxtimes			
P13.5					
	Additional information (See Note B4)	- l l - C	NI	- 1-	
	 Product environmental information contained in this declaration is valid as of the date the declaration is publi external standards referenced in the IT Eco-Declaration may invalidate some information contained in this declaration. 				
230110110	Statistics of the statistics o				
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Note B4: Additional lines may be inserted to declare further items, by positioning the cursor at the far right of the row and hitting the <Enter> key.

Legal references Europe Annex B

Reference	Declaration item
2002/95/EC (ROHS Directive)	P1.1, P4.1
REACH, Annex XVII	P1.6, P1.8, P4.2
REACH, Annex XVII	P1.4
REACH, Annex XVII	P1.2
REACH, Annex XVII	P1.7
REACH, Annex XVII	P1.9
Regulation (EC) No. 2037/2000, 2038/2000, 2039/2000	P1.3
Norwegian regulation relating to restrictions on the use of certain dangerous chemicals 20.12.2002	P1.5
2006/66/EC (Battery and accumulators Directive)	P2.1, P2.2, P2,3, P3.4, P8.1
2006/95/EC (Low Voltage Directive)	P3.1, 3.4
2004/108/EEC (New EMC Directive)	P3.2, 3.4
1999/5/EC (R&TTE Directive)	P3.3, 3.4
"REACH" Regulation (1907/2006), annex VII	P1.10
(EC) No.1272/2008 regulation on classification, labeling and packaging (CLP)	P4.3
REACH article 31, annex II	P4.3
2004/12/EC (Directive on packaging and packaging waste)	P5.1
(97/129/EC) (Commission Decision on Identification System for Packaging Materials	P5.2
2037/2000/EC Regulation on Substances that Deplete the Ozone Layer	P5.3
2002/96/EC (WEEE directive)	P3.4, P6.1
(EC) No.1272/2008 regulation on classification, labeling and packaging (CLP)	P7.19