



Environmental Product Declaration

Product	Type of equipment / Product No.	GMA121.9E(lowest fire load) GMA321.9E(highest fire load) GMA161.9E/MO	Damper Actuator; 7Nm, 24V for ball valves Damper Actuator; 7Nm, 230V for ball valves Damper Actuator; 7Nm w/ Modbus Cab. Adapter f. ball val
	Product line, Product range	Damper Actuator GAP Medium RECCO MK3 / OpenAirTM	
	Process control		
Siemens Schweiz AG Building Technologies Division Theilerstrasse 1a CH-6300 Zug			
Management System since by			
ISO 9001 (Quality) 22-July-1986 SQS			
ISO 14001 (Environment) 20-October-1998 SQS			
Environmentally compatible product design	Product responsibility of Siemens covers the entire product life cycle. Siemens already assesses, avoids and minimizes the environmental impact of its products with respect to production, procurement, sales, use, services and disposal during the product and process planning phases by complying with Siemens EP Standard (former SN 36350) "Specifications on Environmentally Compatible Product and System Design".		
Product use	Typical energy consumption	variant *) see below 10% operational time	
	Maintenance	Not necessary None	
Risk of fire	Fire protection according to	EN 60730 & UL 873	
	Fire load	variant *) see below	
Packaging	20-PAP Corrugated fibreboard	Cardboard & Paper	185g
	Notes on disposal	One-way, recyclable	
Materials	Total weight of device	variant *) see below	
The total weight of a device may deviate from the total of the weights of all individual components due to rounding.			
Plastics	POM; low-halogen	Various plastic parts	variant
	PC; GF 10%; halogenated	Various plastic parts	variant
	PA6T/6I; GF 50%; low-halogen	Universal Shaft Ball Valve Kit	19g
	PA66; AF 10%; halogenated	Gear Wheel 8/9 GS; Pinion 10 GS	2g
	PBT; GF 30%; halogenated	Various plastic parts	145g
	PE; low-halogen	Bag	2g
Metals	Al alloy	Housings & Heat Transfer Bolt GS	342g
	ZnAl4Cu1	Hub & Spring Core GS	48g
	Steel	Various steel parts	374g
	CuSn	Bearings	4g
Others	Steel, Copper, Plastics	Motors	43g
	PVC	Cable	variant

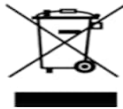
Smart Infrastructure
Building Products

	Plastic, PVC 1)	EMI DAC Assy	variant
PCBAs (Printed Circuit Board assembled)	FR4; TBBA; solder SnAgCu	PCBA	variant

***Variant parts list**

	GMA121.9E (lowest fire load)	GMA321.9E (highest fire load)	GMA161.9E/MO
Total weight of device [g]	1'108	1'148	1'199
Various plastic parts	15	15	16
Various plastic parts	34	35	34
Cable	52	66	
EMI DAC Assy			138
PCBA	29	53	32
Fire load [MJ]	7	8	9
Typical energy consumption [kWh/a]	3.1	4.0	3.1

Disposal



The symbol or any other national label indicates the product, its packaging and where applicable, any removed batteries may not be disposed as part of normal waste. Delete any personal data and dispose of the item via separate collection and recycling facilities in accordance with local and national regulations. For additional details, refer to www.siemens.com/bt/disposal.

For country-specific requirements regarding further disposal information:
<http://www.siemens.com/download?A6V13734633>

Comments

EU-directive 2011/65/EU (RoHS)

The device does not contain substances in concentrations and applications banned under the EU RoHS Directive, including the 4 phthalates added to Annex II in 2015.

Regulation (EC) No. 1907/2006 (REACH)

The device contains the following substances of the candidate list according to Article 59 (1, 10) of the regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) in concentrations above 0.1 % w/w. Contained REACH candidate substances, including those which will become known at a later date, are listed on the delivery note.

Lead, CAS-Nr.7439-92-1; Silicic acid (H₂Si₂O₅), barium salt (1:1), lead-doped, CAS-Nr. 68784-75-8; Diboron trioxide, CAS-Nr.1303-86-2; BPA, CAS-Nr.80-05-7; Lead titanium trioxide, CAS-Nr.12060-00-3 ; Cobalt dichloride, CAS-Nr.7646-79-9 ; 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol, CAS-Nr.119-47-1

(Status according to the creation date of this document.)

The device is low-halogen with exception of:

PVC cable; PCB (TBBA); Gear Wheel 8/9 GS; Pinion 10 GS; Various plastic parts

Further notes and comments:

SPECIAL COMPONENTS:

PVC POWER CABLE: 1.5m => +35g / 2.5m => +105g / 5m => +280g

PVC OPT. POTENTIOMETER CABLE: 1.5m => +35g / 2.5m => +105g / 5m => +280g

PVC SWITCHES CABLE: 1.5m => +50g / 2.5m => +150g / 5m => +400g

Legal Disclaimer: This declaration is for information purpose only.

This Environmental Product Declaration does not constitute a guarantee of the composition of a product, neither does it guarantee that the product will retain a particular composition for a particular period.

Siemens Schweiz AG therefore does not assume liability for any error or for any consequences which may arise from the use of this information to the maximum extent under the law.

Please contact your local Siemens branch office to get further information on environmental aspects and disposal.