

Description of Functions



CURVELINE Handset

Revisions

Version	Date	Modification, change
(-)	09/11	First release
(a)	06/12	Second edition
(b)	12/12	RoHS

Disclaimer and Exclusion of Liability

DewertOkin is not responsible for damage resulting from:

- failure to observe these instructions,
- changes made to this product which have not been approved by DewertOkin, or
- the use of replacement parts which have not been approved or manufactured by DewertOkin.

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1. General Information

1.1 About this functional description

This functional description is intended specifically for the CURVELINE handset. This description is not an instruction manual for the end product and should only be used in conjunction with the installation instructions for the drive.

 CAUTION
 <p>The notices in these instructions must be followed! Following the guidelines during installation and connection procedures will help to minimize:</p> <ul style="list-style-type: none"> • the risk of accident and injury, and • damage to the drive system or the end product.

This functional description has been created with due care and attention. However, we cannot guarantee that the data, images and drawings are complete and correct nor do we accept any liability for the information contained therein, unless required by law.



- ▶ We reserve the right to make unannounced technical changes in the course of our continual product improvement process!



1.2 Conventions used in this manual



Notices which do not relate to safety are indicated in these instructions with a triangle:

- ▶ Triangular notice symbol

Explanations of warning notices

 CAUTION
 <p>CAUTION indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.</p>



 WARNING
 <p>WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.</p>

 NOTICE
 <p>NOTICE is used to address practices which are not related to personal injury but may result in damage to the product or surroundings.</p>

2. Safety Instructions



2.1 Proper and Intended Usage



DewertOkin's CURVELINE handset is used to control DewertOkin drive systems.



	 CAUTION
	<p>This handset should only be used for the applications described above. Any other form of usage is not permitted and can lead to accidents or destruction of the unit. Such non-approved applications will lead immediately to the expiration of all guarantee and warranty claims on the part of the end-product manufacturer against the manufacturer.</p>

Improper usage

Be sure to follow the notices below concerning improper usage. You should include them in your product manual in order to inform the users of your end product.

	 WARNING
	<p>The CURVELINE handset may not be used:</p> <ul style="list-style-type: none"> • near high-frequency surgical equipment or defibrillators, • in any environment where combustible or explosive gases or vapours (e.g., anaesthesiology) may be present, • in a humid environment or outdoors, or • in any application that will be cleaned with an automated washing system.

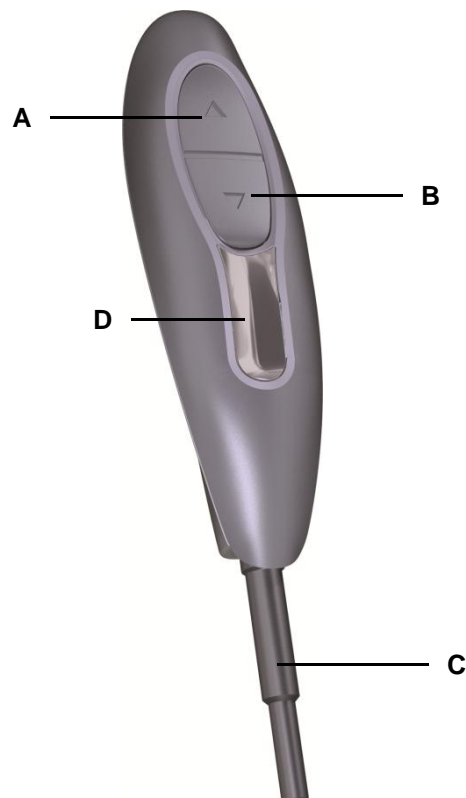
	 CAUTION
	<p>The CURVELINE handset may not be used:</p> <ul style="list-style-type: none"> • by small children, • by frail or infirm persons without supervision, or • in the proximity of small children.

	 CAUTION
	<p>You should only use spare parts which have been manufactured or approved by DewertOkin. Only original or approved spare parts guarantee sufficient levels of safety.</p>

3. Handset Description

The end product is controlled and adjusted using the keypad on the CURVELINE handset. The CURVELINE handset should be connected to a DewertOkin drive.

3.1 CURVELINE handset



CURVELINE handset

A Adjusting upwards

C Cable for connecting to the drive system

B Adjusting downwards

D Continuous handset lighting (optional)

3.2 Technical specifications

Connection voltage	24 – 29 V DC
Protection degree	IP20
Protection classification	III

3.3 Handset connection to the drive and control unit

First connect the handset with the DewertOkin drive and the DewertOkin control unit using the corresponding handset port on the drive.

4. Troubleshooting

► If you experience an error that is not listed in this table, please contact your supplier.


Problem	Possible cause	Solution
The handset or drive system is not functioning.	There is no mains voltage on the drive or control unit.	Connect the mains power.
	The handset cable is not plugged in.	Plug the handset cable into the drive or controller.
	The hand switch or drive system is defective.	Please contact your supplier or sales agent.
The drive is suddenly not capable of movement.	The drive's fuse may have been triggered or may be broken.	Please contact your supplier or sales agent.
	There is no mains supply voltage.	Connect the mains power.
	Problem with lead-in connection (mains power or handset).	Check the cables and reinsert them, if required.

5. Maintenance


Type of check	Explanation	Time interval
Check the function and safety of the electrical system.	A qualified electrician should carry out this inspection.	Periodic inspections can be carried out at intervals based on the risk assessment which you conduct for your end product.
Look over the housing periodically for any signs of damage.	Check the housing for breaks or cracks. The IP-class protection will be impaired by any breakage or cracks.	At least every six months.
Look over the plug-in connections and electrical access points for signs of damage.	Check that all electrical cables and connections are firmly seated and correctly positioned.	At least every six months.
Look over the cables for any signs of damage.	Check the connecting cables for pinching or shearing. Also check the strain relief and kink protections mechanisms, in particular after any mechanical load.	At least every six months.
Periodic functional test of the handset	Move the drive to the end positions in order to test the end switches.	At least every six months.

Cleaning and care

The CURVELINE handset was designed so that it would be easy to clean. Its smooth surfaces simplify the cleaning process.

	NOTICE
	Never clean the handset in an automated washing system or with a high-pressure cleaner. Do not allow fluids to penetrate the handset. Damage to the handset could result.

- 1 Be sure to disconnect the handset cable from the drive before you start cleaning!
- 2 Clean the CURVELINE handset with a dry cloth.
- 3 Be sure that you do not damage the connecting cables during the cleaning.

	NOTICE
	Do not use a cleanser that contains benzene, alcohol or similar solvents.

6. Disposal

The CURVELINE handset consists of electronic components, cables and metal and plastic parts. You should observe all corresponding national and regional environmental regulations when disposing of the system.

The disposal of the end product is regulated in Germany by Elektro-G, internationally by the EU Directive 2012/19/EC (WEEE), or by any applicable national laws and regulations.



The CURVELINE handset should not be disposed of with normal household waste!

EG-Konformitätserklärung

Nach Anhang IV der EMV-Richtlinie 2014/30/EU

Nach Anhang VI der RoHS-Richtlinie 2011/65/EU
(inkl. Delegierte Richtlinie (EU) 2015/863)

Der Hersteller

EU Declaration of Conformity

*In compliance with Appendix IV of the EMC-Directive
2014/30/EU*

*In compliance with Appendix VI of the EU RoHS
Directive 2011/65/EU
(incl. Commission delegated Directive (EU) 2015/863)*

The manufacturer

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erklärt hiermit, dass das Produkt

declares that the following product

CURVELINE

mit DewertOkin -Antriebssystem / with DewertOkin drive system

die Anforderungen folgender EG-Richtlinien erfüllt:

meets the requirements of the following EU directives:

**Richtlinie über elektromagnetische Verträglichkeit
2014/30/EU**

Electromagnetic Compatibility Directive 2014/30/EU

**DELEGIERTE RICHTLINIE (EU) 2015/863 DER
KOMMISSION vom 31. März 2015 zur Änderung von
Anhang II der Richtlinie 2011/65/EU des Euro-
päischen Parlaments und des Rates hinsichtlich der
Liste der Stoffe, die Beschränkungen unterliegen.**

**COMMISSION DELEGATED DIRECTIVE (EU)
2015/863 of 31 March 2015 amending Annex II to
Directive 2011/65/EU of the European Parliament
and of the Council as regards the list of restricted
substances.**

Angewendete Normen

Applied standards:

- EN 55014-1:2006/A1:2009/A2:2011
- EN 55014-2:1997/A1:2001/A2:2008
- EN 61000-3-2:2014
- EN 61000-3-3:2013

Konstruktive Änderungen, die Auswirkungen auf die in
der Montageanleitung angegebenen technischen Daten
und den bestimmungsgemäßen Gebrauch haben, das
Produkt also wesentlich verändern, machen diese
Konformitätserklärung ungültig!

*This declaration of conformity is no longer valid if
constructional changes are made which significantly
change the drive system (i.e., which influence the
technical specifications found in the instructions or the
intended use)!*

Kirchlengern, Germany 25 November 2019



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