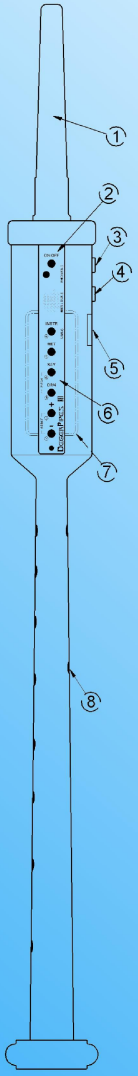


DegerPipes III
Electronic Bagpipes

User Manual

Overview

① *Mouthpiece*
② *Power-Button*
③ *Phones Jack*
④ *MIDI/AUX-Jack*
⑤ *USB-C Connector*
⑥ *Front-Panel*
⑦ *Battery-Compartment*
⑧ *Start/Stop-Sensor*

Introduction

Thank you for choosing the DegerPipes III Chanter. This electronic bagpipe features authentic sound generation, USB-MIDI, a headphone jack, and a built-in speaker. It allows you to practice silently with headphones or play through the built-in speaker or an amplifier and external speakers.
Please read these instructions carefully before using the instrument for the first time.

Safety instructions

Your DegerPipes III Chanter will serve you well for a long time if you observe the following simple precautions:
Do not expose the instrument to extreme temperatures (such as prolonged direct sunlight or inside cars) or humidity. Avoid places with dust accumulation, vibrations, or strong shocks. If the instrument is not used for a long period of time, the batteries should be removed.
Do not open the case. This instrument contains no user-serviceable parts. If you have any problems or questions, please contact your dealer or manufacturer directly. **Improper handling or opening of the case will void the warranty.**

Table of contents

Putting into service

Power Supply

The DegerPipes Chanter requires two AAA (micro, LR03) batteries or a USB power supply to operate. The battery compartment ⑦ is located opposite the front panel with the controls. Alkaline batteries or NiMH rechargeable batteries can be used. The LED indicates the battery charge level by colour. When connected to USB, the Chanter is also powered via USB.

Switching on and off

The Chanter is switched on and off using the power button ②. The Chanter switches itself off after two minutes of inactivity. When powered via USB, the instrument remains on.

Display (LED)

The LED indicates the operating status of the Chanter. The following information is displayed:

Display	Meaning
Off	Chanter is switched off
Short flashes every second	Switched on and stopped, the chanter can now be started
Continuous light (short interruptions during activity)	Chanter is active
Steady red flashing	The battery is almost empty and should be replaced soon
Flashing in time with the metronome	Metronome in action

The colour indicates the condition of the batteries: green: good, yellow: half full, red: low.
When selecting different settings, the LED indicates the set value by the number of flashes. When changing settings, the flashing sequence restarts each time; it is not necessary to wait until the end of the sequence.

Starting and stopping the chanter

The chanter's sound is activated by touching the start sensor ⑧ on the back of the chanter and stopped by touching it again. For correct functioning, another sensor must also be touched.

As long as the upper hand does not touch the chanter, only the drones start. The sound of the chanter is added as soon as the upper hand touches the chanter. When the drones are switched off, the chanter sounds immediately.

Headphone Connection

The headphones are connected to the upper jack socket ③. All standard headphones with a 3.5 mm jack can be used. This socket can also be connected to the input of an amplifier (line input of a stereo system, active speakers, guitar amplifier, or mixing console). Mono plugs cause a short circuit and can lead to significantly higher power consumption. Therefore, stereo plugs (three-pin) should always be used.

Internal Speaker

The internal speaker is automatically activated when nothing is connected to the headphone jack ③.

Basic functions

Volume

The volume is adjusted using the **+** and **–** buttons. The volume of the built-in speaker can be adjusted independently of the headphone connection. **Caution**: Avoid excessive volume when using headphones!

Selecting the sound (INSTR)

The INSTR button can be used to switch between the different instruments.

Drones Volume (DRN)

The drone volume can be adjusted using the **+** and **–** buttons while holding down the DRONES button. The drone volume is stored separately for each instrument.

Quint Drone (baritone drone)

When the DRONES button is held down, the SOUND button can be used to switch a quint and quart drone on and off. This function can be activated independently for each instrument.

Transposition (KEY)

The default key of the chanter is Bb (B-flat). The key can be changed in semitone steps by holding down the KEY button and using the **+** and **–** buttons.
The settings for the drones and for the key are stored separately for each instrument and are also changed when switching. The currently set key is adopted for the next instrument if the KEY button is held down when switching.

Pitch (PITCH)

The pitch of the chanter is adjusted using the **+** and **–** buttons while holding down the DRN and KEY buttons simultaneously. The pitch is global and independent of the selected instrument.

Metronome (MET)

The built-in metronome is started by pressing the MET button twice. The metronome waits two seconds after the first press for another key press. If the key is pressed again within this time, the metronome continues at this speed. If the two seconds elapse without the key being pressed again, the metronome stops. The beat of the metronome is also indicated by the LED.

Additional Functions

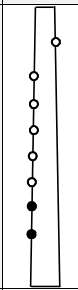
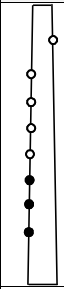
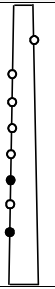
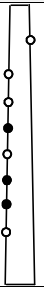
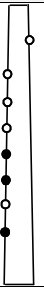
Additional functions can be activated using special handles. To do this, touch the respective sensors and then select the corresponding function using the ① to ⑥ keys. The sound output must be stopped in order to switch between the handle tables. The other functions are always available.

Sound Effects (reverb, chorus)

The reverb and chorus effects can be selected separately for each sound. To do this, press a specific combination on the sensors (see following table) and then select the intensity using the ① to ⑥ keys. ① is off and ⑥ is maximum.

Audio Pass-Through

The MIDI/AUX connection can be switched to pass through accompanying music supplied by an audio player (e.g., smartphone). This accompaniment is then mixed with the sound of the chanter. This is particularly useful when using headphones. An appropriate audio cable is required for this purpose (3.5 mm stereo jack plug on both sides).

	Fingering chart	Fingering chart	Scale	Sensing-Mode	AUX-Mode	Reverb	Reverb-Time	Chorus
Grip								
⑥	Barock	Gaita+	-	6	-	6 (max)	6 (max)	6 (max)
⑤	Shepherds-Pipe	Gaita	-	5	-	5	5	5
④	Markt-Sack		Sharp-C on	4	-	4	4	4
③	GHB+		Sharp-C off	3	Line-In	3	3	3
②	GHB *		Temp-Scale	2 *	MIDI-B	2 *	2 *	2
①	GHB-		Pipe-Scale *	1	MIDI-A *	1(off)	1(off)	1(off) *

*: default setting

Switching between equal temperament and just intonation

The bagpipe scale does not use the equal temperament commonly used today, but rather just intonation. This allows all notes of the scale to sound without beat with the drones.
However, when playing with other instruments, it is advantageous to use equal temperament. The DegerPipes chanter can produce both tunings.

Resetting

Settings can be reset to their original values by pressing the **+** and **–** buttons simultaneously:

Drones

1. Press and hold **DRN**.
2. Press the **+** and **–** buttons.

The drone volume and fifth/fourth drone are reset.

Key

1. Press and hold **DRN**
2. Press the **+** and **–** buttons.

The key is reset to B-flat.

Tuning

1. Press and hold **DRN** and **KEY**
2. Press the **+** and **–** buttons.

The basic tuning is reset to 440 Hz.

Restore Default Settings

1. Turn off the device using the power button ②.
2. Press and hold both the **+** and **–** buttons.
3. Turn the device back on.

Factory Settings

1. Turn off the device using the power button ②.
2. Press and hold **DRN**, **+** and **–** buttons.
3. Turn the device back on. This resets the internal file system.

MIDI

MIDI stands for Musical Instruments Digital Interface. This connection does not transmit sounds, but data. The actual sound is then generated in a connected sound generator based on this data. Depending on the sound generator used, any desired sound can in principle be played with the chanter.

MIDI-Cable

The MIDI data is output simultaneously via USB and the MIDI/OUT output. MIDI/AUX is TRS MIDI. There are two pin assignments, A and B. After a reset to factory settings, assignment 'A' is selected. If a connected MIDI device does not respond, assignment 'B' should be selected (see 'Additional functions'). The MIDI cable supplied with older DegerPipes chanter models has assignment 'B'.

MIDI Channels

The DegerPipes chanter uses MIDI channel 1 for chanter data and channels 2 to 4 for drones. The fingering chart shows the assignment of the note numbers sent to the respective fingerings. The following table shows the note numbers sent via MIDI on channels 2 to 4:

MIDI-Channel	Note-Number
1	Chanter (see Fingering-Charts)
2	58 (Tenor Drone)
3	46 (Bass Drone)
4	53 (Baritone Drone)

Volume with MIDI

The volume of the chanter at the MIDI output cannot be changed. (The volume is set on the respective tone generator.) The ratio of the volume of the drones to the chanter corresponds to the setting of the drone volume.

Just intonation with MIDI

The DegerPipes chanter can still produce just intonation by sending so-called pitch bend commands before each tone change. These commands tune the respective tone from equal temperament to the pitch of just intonation. For this mechanism to work correctly, the pitch bend range (bend range) on the tone generator must be set to 2 semitones. This is the default setting on almost all tone generators, so it should rarely be necessary to change this value. If in doubt, this setting should be checked.

Additional MIDI Functions

For special applications, it is possible to activate extended data output via the MIDI port. In this mode, all activities of the chanter are reported via MIDI (control change information). A detailed description of this mode is available on the DegerPipes website (**www.deger.com**).

Fingering-Charts

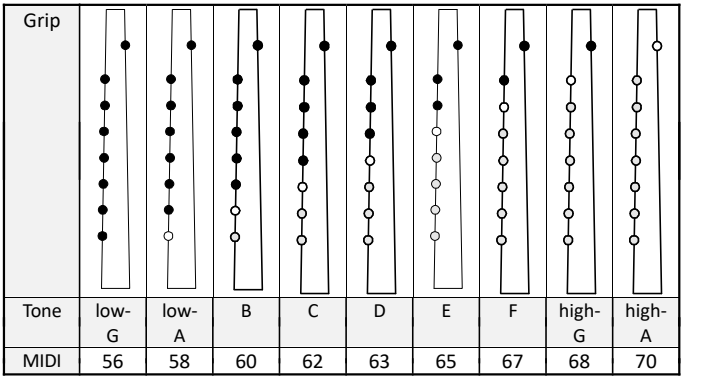
The Fingering-Charts are selected by pressing and holding one of the buttons during power-up or by using the additional function (see above). After resetting to factory settings, the default fingerboard chart is selected.

Button	Fingering-Chart
–	GHB Minimal (no fork-fingering, no vibrato)
+	GHB Standard (some fork-fingering, vibrato activated
DRN	GHB Enhanced (all fork-fingering, extended range)
KEY	Medieval (Marktsack)
MET	Sheperd's pipe (French)
INSTR	Baroque, (Renaissance, similar to Recorder)
INSTR | MET	Gaita standard
INSTR | KEY	Gaita with extended range

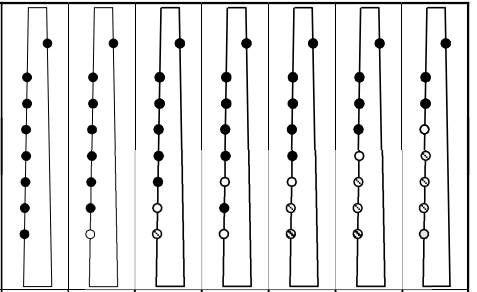
For proper functioning, at least two sensors must always be touched.

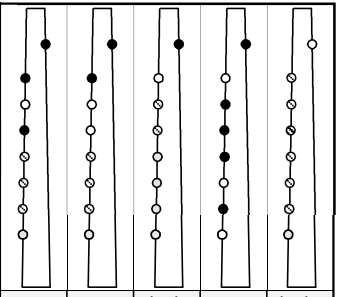
■	closed
□	open
▒	don't care
▨	vibrato

GHB-Minimal

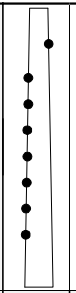
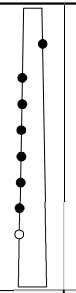
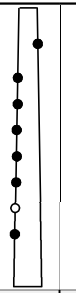
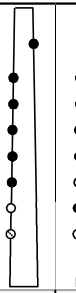
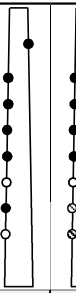
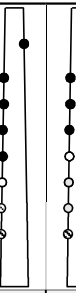
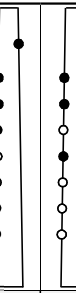
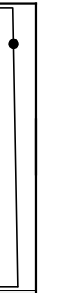


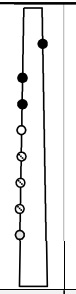
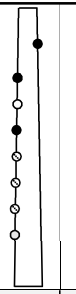
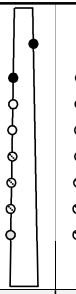
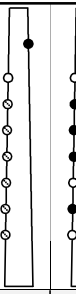
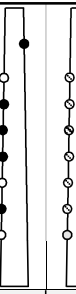
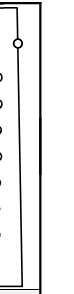
GHB-Standard

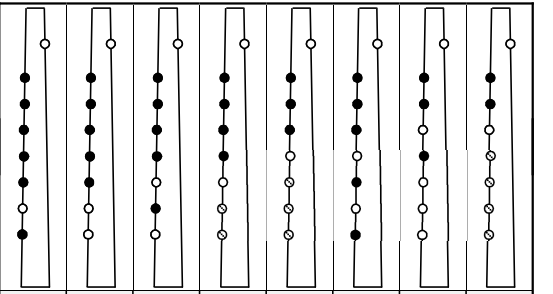
Grip							
Tone	low-G	low-A	B	nat. C(Cb)	C	D	E
MIDI	56	58	60	61	62	63	65

Grip					
Tone	nat. F (Fb)	F	high G	G#	high-A
MIDI	66	67	68	69	70

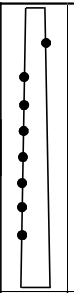
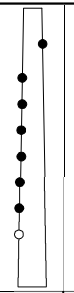
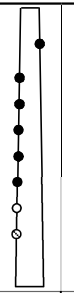
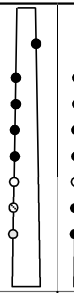
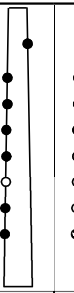
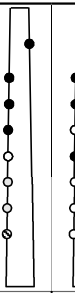
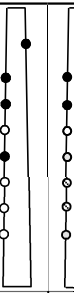
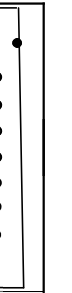
GHB-Enhanced

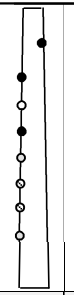
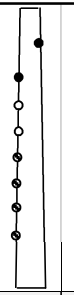
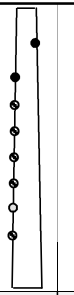
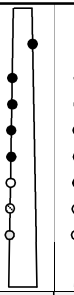
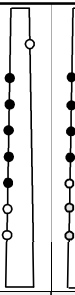
Grip								
Tone	low-G	low-A	Bb	B	nat. C(Cb)	C	D	Eb
MIDI	56	58	59	60	61	62	63	64

Grip						
Tone	E	nat. F (Fb)	F	high-G	G#	high-A
MIDI	65	66	67	68	69	70

Grip								
Tone	high-Bb	high-B	high-b#	high-c	high-d	high-cb	high-d	high-e
MIDI	71	72	73	74	75	76	76	77

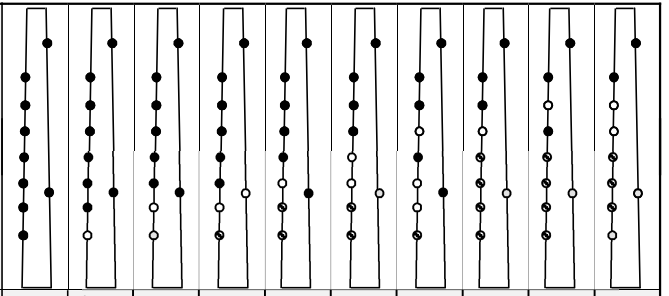
Medieval (Marktsack)

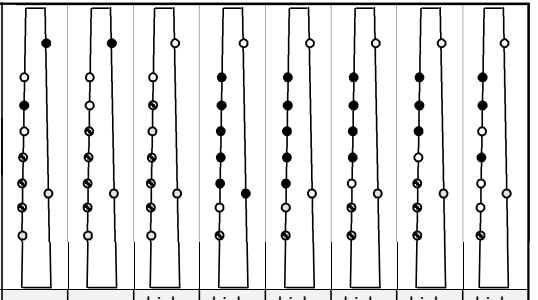
Grip								
Tone	low-G	low-A	B	nat. C(Cb)	C	D	Eb	E
MIDI	56	58	60	61	62	63	64	65

Grip						
Tone	nat.F (Fb)	F	G#	high-A	high-B	high-C(b)
MIDI	66	67	68	70	72	73

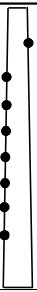
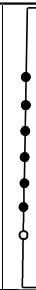
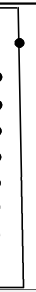
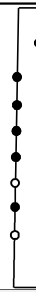
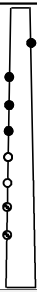
Shepherd's pipe (french fingering)

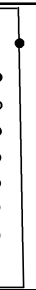
For instruments without an additional thumb sensor, this sensor is treated as if it were permanently covered.

Grip										
Tone	low-G	low-A	B	nat. C(Cb)	C	D	Eb	E	Fb	F
MIDI	56	58	60	61	62	63	64	65	66	67

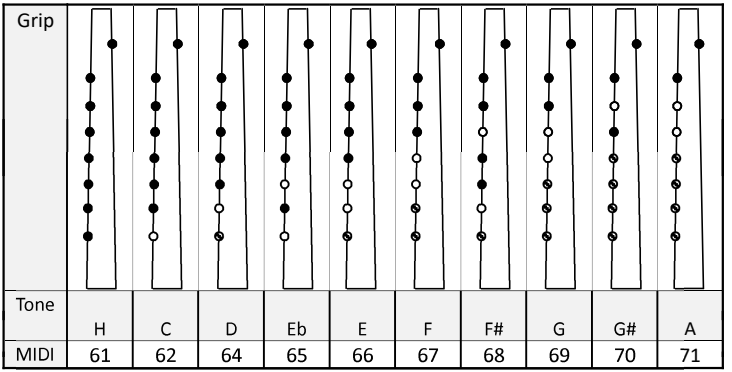
Grip								
Tone	Bb	H	high-a	high-d	high-eb	high-e	high-d	high-e b
MIDI	68	69	70	71	72	73	74	75

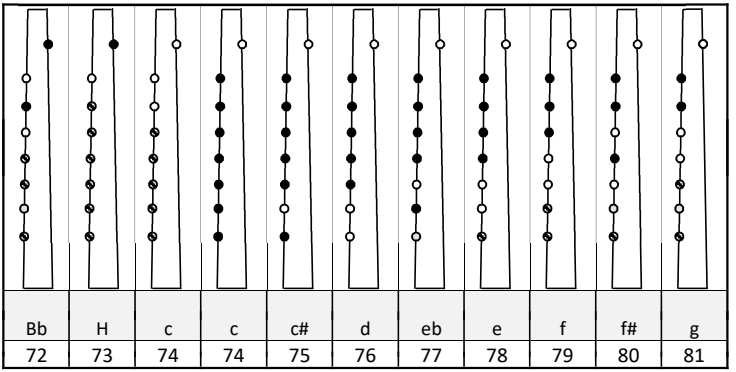
Gaita (Standard)

Grip								
Tone	H	C	D	Eb	E	F	F#	G
MIDI	61	62	64	65	66	67	68	69

Grip						
Tone	G#	A	Bb	H	c	d
MIDI	70	71	72	73	74	75

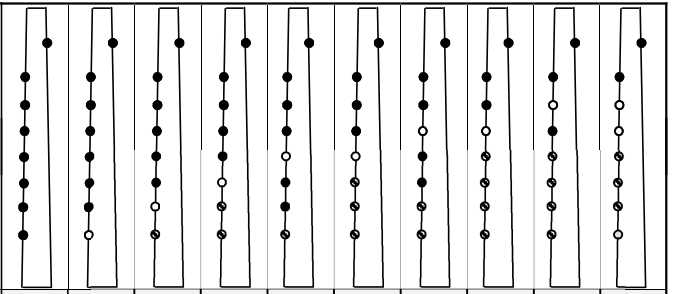
Gaita (enhanced)

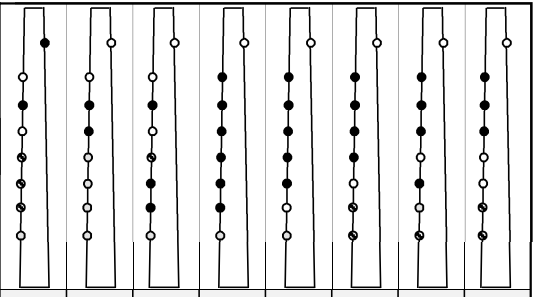




Baroque (Renaissance)

This fingering chart is very similar to that of the recorder.

Grip										
Tone	C	D	E	F	F#	G	G#	A	Bb	H
MIDI	60	62	64	65	66	67	68	69	70	71

Grip								
Tone	c	c#	d	d#	e	f	f#	g
MIDI	72	73	74	75	76	77	78	79

Troubleshooting

Problem	possible cause	Remedy
The chanter does not respond at all or the LED remains dark	No battery or battery empty	Insert fresh batteries/rechargeable batteries or connect USB
	The electronics are in an undefined state (e.g., software crash).	Press and hold the power button for at least 15 seconds, then turn on as normal.
	other cause	Contact dealer or manufacturer
no sound	Volume set too low	Check volume setting
	Headphones or connected device not ready or defective	Disconnect, check whether internal speaker works
No response from the connected MIDI instrument	Cable not plugged in correctly	The MIDI cable must be plugged into the lower jack.
	Incorrect setting for the cable (assignment A or B)	Switch between modes A/B (see additional functions)
	The connected MIDI devices are not set to receive on channel 1 or the volume is too low.	Check the settings on the connected MIDI devices; if necessary, connect a MIDI keyboard first.
Sensors respond with delay or not at all, scratching noise	dry skin	Apply some cream to your hands
	dirty sensors	Clean sensors with a mild cleaning agent
Sensors remain 'stuck', i.e., nothing changes after removing your finger.	Chanter damp or dirty	Rub the entire handle of the chanter with a dry cloth or, if dirty, wipe with soapy water.
LED flashes red very quickly	Internal error	Reset to factory settings by holding down the –, +, and 'DRN' buttons when switching on. If the error persists, contact the manufacturer or dealer.

CE This Product complies with the requirements of the EMC Directive 89/336/EEC, and carries the CE marking accordingly.

Technical Specifications

Power supply:	2x AAA (Micro, LR03) Alkaline batteries, rechargeable NiMH or USB-C
Connectors:	•Headphones/audio output: 3.5 mm jack •MIDI/AUX: 3.5 mm jack •USB-C
Battery life:	Approximately 60-100 hours with alkaline batteries (depending on connected devices), approximately 20-40 hours when operating with the integrated speaker, depending on volume.
Dimensions:	Length: 350 mm without mouthpiece, 440 mm including mouthpiece, Ø 37 mm
Weight:	approx. 180 g (including batteries)

Updating the Firmware

Updates to the internal software (firmware) may be available for improvements and functional enhancements. Updates will be announced on the DegerPipes website (www.deger.com), where they will also be available for download.

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