



EVA PIEZO

A step-by-step guide for connecting and operating the EVA Piezo

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1. EVA PIEZO

Combining EVAstream with Piezo

The EVAstream seamlessly integrates with the Piezo controller unit installed in the pool.



Cover plate options

In the example, the stainless steel cover plate is used. The coverplate is available in the following materials and colours:

ABS	White, grey and anthracite
Stainless steel	Inox gloss, inox satin, gold, bronze and black

Mounting adapter options

In this example, the black mounting adapter is used. The mounting plate is also available in white.

Piezo cable

The Piezo cables are each 15 meter long. The cable can be extended using a 4x0.8mm² cable. For each Piezo button, only four of the six available conductors are installed and used. The two remaining unused conductors must be capped off.

The conductors are used as follows:

Switch	White and grey
Ground of LED	Brown
Piezo colour	Yellow, pink and green (Only use one per Piezo, depending on the chosen colour)



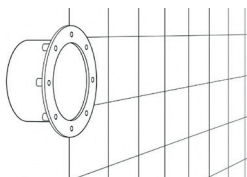
Colours Piezo buttons

Button colours can be customised to suit individual preferences.

Pink cable	=	red colour
Green cable	=	green colour
Yellow cable	=	blue colour

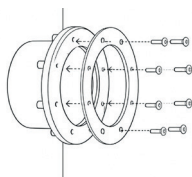
2. MOUNTING THE EVA PIEZO

Make sure the niche is built in correctly for a concrete or liner pool.



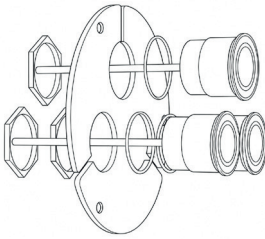
Concrete pool

The niche (AA-09) is cast into the concrete pool and must fall behind the tiled wall.



Liner pool

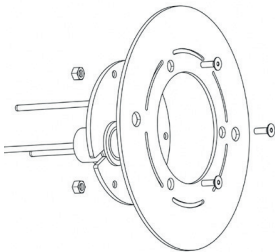
Mount the niche in the pool edge. Use the supplied drilling template to mount the niche in the correct horizontal position. Mount the cover ring + gasket to the installation niche + gasket with the 8x M6*20 mm screws.



Installation of the Piezo buttons and mounting plate

1. Place the O-rings onto the three Piezo buttons.
2. Insert the Piezo buttons through the openings in the mounting adapter.
3. Check that the O-rings sit flush against the mounting adapter to ensure a proper seal.
4. Fit the locknuts on the rear of the mounting plate.
5. Tighten the nuts by hand, then lightly tighten further using a tool.

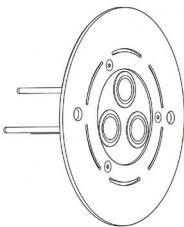
Please note that the minimum cable length from the Piezo to the ECA must be 3 meters for warranty reasons. Keep approx. 1 meter cable length in the niche (to be able to put the Piezo at the edge of the pool).



Mount the coverplate to the Piezo

1. Place the cover plate over the mounting plate.
2. Align the screw holes with the mounting holes.
3. Insert the fixing screws (M5*10) with the M5 capnuts.
4. Tighten the screws.
5. Mount the cover plate to the niche.

Use 2x M6*50 mm screws for concrete and 2x M5*8 mm screws for liner.

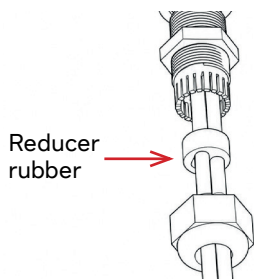


Assembly check

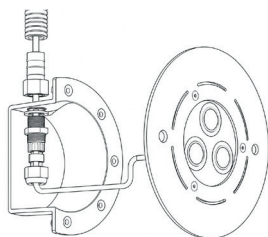
1. All three Piezo buttons are installed straight.
2. The cover plate is mounted flush.
3. No O-rings are visible on the outside.

There are two different installation options for the next step.

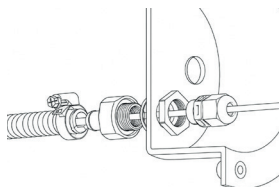
1. Cable installation upwards



1. Replace the reducer rubber with the new reducer rubber with three cable openings for the three Piezo cables.
2. Feed all three cables through the cable gland.
3. Leave 1 meter of cable length on the pool side.
4. Tighten the cable gland securely.



2. Cable installation on the back side



1. Feed the cable through the cable gland.
2. Leave 1 meter of cable length on the pool side.
3. Tighten the cable gland securely.
4. Repeat this process for all three Piezo buttons.

3. CONNECT THE EVA PIEZO TO THE EVASTREAM

Note: The Piezo is not compatible with the ECA Eco

The Piezo buttons can be connected in different ways, depending on the EVAstream or ECA model. Please check which model you are installing before connecting the Piezo buttons.

- EVAstream Next (ECA 1 Essential, ECA 2 Trainer & ECA 3 ProTrainer)
- EVAstream Fit, Pro or Max

3.1 EVASTREAM NEXT SERIE

Connect the Piezo on the EVA Controller



1. Select the desired Piezo button colour
Please refer to page 3 for the Piezo button colour specification
2. Install the cables into the terminal block in the correct order, as shown below.
3. Insert the terminal blocks into the corresponding green sockets.



3.2 EVASTREAM FIT, PRO & MAX

Connect the Piezo on the EVAstream

- 1. Select the desired Piezo button colour
Please refer to page 3 for the Piezo button colour specification
- 2. Connect the wires to the circuit board, following the wiring layout shown below.

Wire	Function	Connection EVA Controller
Switch 1 		
Yellow	LED + BLUE	Position 20
Brown	LED –	Position 19
White	SWITCH	Position 21
Grey	SWITCH	Position 22
Switch 2 		
Yellow	LED + BLUE	Position 16
Brown	LED –	Position 15
White	SWITCH	Position 17
Grey	SWITCH	Position 18
Switch 3 		
Yellow	LED + BLUE	Position 12
Brown	LED –	Position 11
White	SWITCH	Position 13
Grey	SWITCH	Position 14

Circuit board wiring layout

fan 24Vdc	-	12	+	fan 24Vdc	12			
ppm output 2	-	34	+	ppm output 2	34			
ppm output 1	-	56	+	ppm output 1	56			
piezo 4 LED 12Vdc	-	78	+	piezo 4 LED 12Vdc	78			
piezo 4 switch	sw	910	sw	piezo 4 switch	910			
piezo 3 LED 12Vdc	-	1112	+	piezo 3 LED 12Vdc	Brown		Yellow	- button
piezo 3 switch	sw	1314	sw	piezo 3 switch	Grey		White	- button
piezo 2 LED 12Vdc	-	1516	+	piezo 2 LED 12Vdc	Brown		Yellow	on/off button
piezo 2 switch	sw	1718	sw	piezo 2 switch	Grey		White	on/off button
piezo 1 LED 12Vdc	-	1920	+	piezo 1 LED 12Vdc	Brown		Yellow	+ button
piezo 1 switch	sw	2122	sw	piezo 1 switch	Grey		White	+ button
dmx G (shield)	G	2324	G	dmx G (shield)		2324		
dmx in/out	-	2526	-	dmx in/out		2526		
dmx in/out	+	2728	+	dmx in/out		2728		
24Vdc in	-	2930	-	24Vdc out		2930		
24Vdc in	+	3132	+	24Vdc out		3132		

3.3 CONNECTING OLD AND NEW PIEZO WIRING

If you want to connect the current Piezo cable (Switch m30/m22) to the Previous Piezo cable, follow the steps below. Ensure all wires are correctly matched before restoring power.

Wire count

The old Piezo cable contains 7 wires in total. The new Piezo cables have 4 wires per cable.

1. Connect the common wires

Connect all three brown and all three grey wires together, then connect this to the single black common wire of the old Piezo wire.

2. Connect the wires to each switch

Connect switch 1

Connect the yellow wire (new Piezo) to the yellow wire (old Piezo)

Connect the white wire (new Piezo) to the purple wire (old Piezo)

Connect switch 2

Connect the yellow wire (new Piezo) to the blue wire (old Piezo)

Connect the white wire (new Piezo) to the white wire (old Piezo)

Connect switch 3

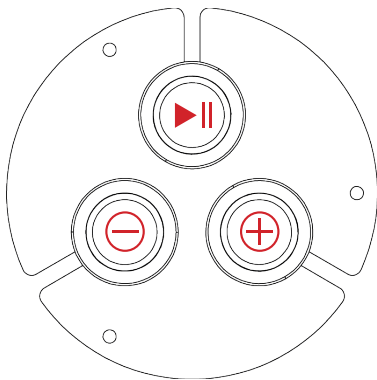
Connect the yellow wire (new Piezo) to the red wire (old Piezo)

Connect the white wire (new Piezo) to the green wire (old Piezo)

				Previous wiring diagram for Piezo 3 (7-wires)		Current wiring diagram for Piezo (Switch m30/m22)	
fan 24Vdc	-	1 2	+	fan 24Vdc	1 2	1 2	
ppm output 2	-	3 4	+	ppm output 2	3 4	3 4	
ppm output 1	-	5 6	+	ppm output 1	5 6	5 6	
piezo 4 LED 12Vdc	-	7 8	+	piezo 4 LED 12Vdc	7 8	7 8	
piezo 4 switch	sw	9 10	sw	piezo 4 switch	9 10	9 10	
piezo 3 LED 12Vdc	-	11 12	+	piezo 3 LED 12Vdc	13		Yellow
piezo 3 switch	sw	13 14	sw	piezo 3 switch	15		White
piezo 2 LED 12Vdc	-	15 16	+	piezo 2 LED 12Vdc	17		White
piezo 2 switch	sw	17 18	sw	piezo 2 switch	19		Yellow
piezo 1 LED 12Vdc	-	19 20	+	piezo 1 LED 12Vdc	21		White
piezo 1 switch	sw	21 22	sw	piezo 1 switch	23 24		
dmx G (shield)	G	23 24	G	dmx G (shield)	25 26		
dmx in/out	+	25 26	+	dmx in/out	27 28		
24Vdc in	-	27 28	-	24Vdc out	29 30		
24Vdc in	+	29 30	+	24Vdc out	31 32		

4. PIEZO FUNCTIONS FOR EVASTREAM

When the Piezo is installed inside the pool and connected to the EVAstream, press the top Piezo button to start the EVAstream (and pause if desired). Prepare your swim session using the web interface to control it directly from inside the pool.



Basic functions

Play/pause button	Play/pause EVAstream
Button +	Increase the swim speed with 5% (min. 30% - max. 100%)
Button -	Decrease the swim speed with 5% (min. 30% - max. 100%)

Functions for training session

Play/pause button	Select the training in the EVA Web app. You can start the training using the play/pause button on the Piezo. During the session, you can pause and resume the training at any time using the same button.
Button +	Increase the training speed with 5% (min. 30% - max. 100%)
Button -	Decrease the training speed with 5% (min. 30% - max. 100%)



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