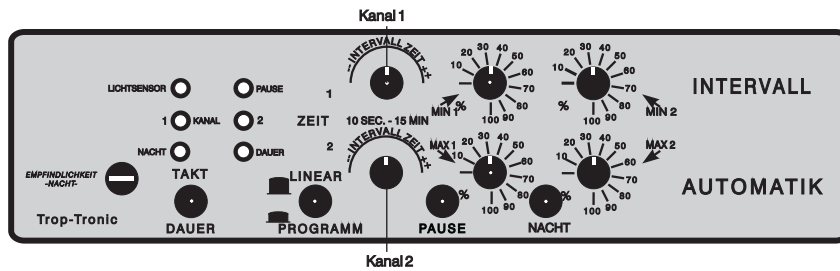


Operating instructions for Digital Interval Controller type: 7 / III



The unit described below is a new development and complies with most recent standards regarding function and technology. All common types of pumps (Tunze, Fischer, some Eheim, etc. using shaded pole motors) may be operated, provided that the current requirement does not exceed 150 Watts.

The unit comprises "double channel technology" i.e. two pumps can be operated completely independently of the interval time and speed (power). The interval may be adjusted continuously between 10 seconds and 15 minutes, and the power between 0 and 100%. The motor remains cool even at low speed. No overheating occurs.

Power control depends to a limited extent on the type of pump in use as well as its mechanical condition (the smooth running of the bearings). At this setting, the speed of the pump should also be closely observed.

Example:

set channel 1's upper limit to 80% with the potentiometer "max", set the lower limit to 10% with the potentiometer "min" and the interval time to 10 minutes. If channel 1 is "ON", the pump will run for 10 minutes with 80% power. If channel 1 goes "OFF", the pump will continue to operate with 10% power until the next interval etc.

The second channel can be set according to your requirements, either at same figure as channel 1 or completely differently. The unit also contains a second internal cycle which can be reached via the switch "Linear - Programm".

When "Programm" is switched on (button out), an interval comes into operation which is very similar to the natural current of the sea and has a completely non-linear switching sequence. The cycle length in this program can be influenced within certain limits by the time potentiometers. By means of the switch "Takt - Dauer" (Cycletime) the unit can be switched from cycle to continuous operation and vice versa. The switch "Pause" stops alternating and switches both channels to the "Min"-values (freely selected by you) for a period of 30 minutes (e.g. to feed your fish). When this period has expired, the previously program resumes operation.

The device is extended by an automatic night reduction depending on light intensity. Light sensitivity is adjusted by the potentiometer "Empfindlichkeit Nacht". Pressing the button "Nacht" (night) enables the night mode. Night mode behaves like the pause, but stays in this mode as long as there is only few light. You may test this by shading the transparent light sensor in the front panel with a dark cloth or something else. Be careful not to push the light sensor inside the cabinet.

Light emitting diodes (LEDs) in the front panel indicate the operating status:

Channel 1 and/or Channel 2 active
The unit is switched to "continuous operation"
The unit is switched to "pause".

The power outlets for connecting the pumps are installed in the rear panel of the cabinet. They are protected by a miniature fuse which is accessible from the outside. Disconnect the device from the power net before changing the fuse.

Maximum load per channel: 150 Watt
Current requirement without load: 4 Watt at 235 Volts / 50Hz.
Fuse: 1.6 Amps fast
Insulated plastic housing, black, stackable.
Size: 220 x 148 x 70mm / mains lead approx. 1 m length / weight: 500 g.

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