



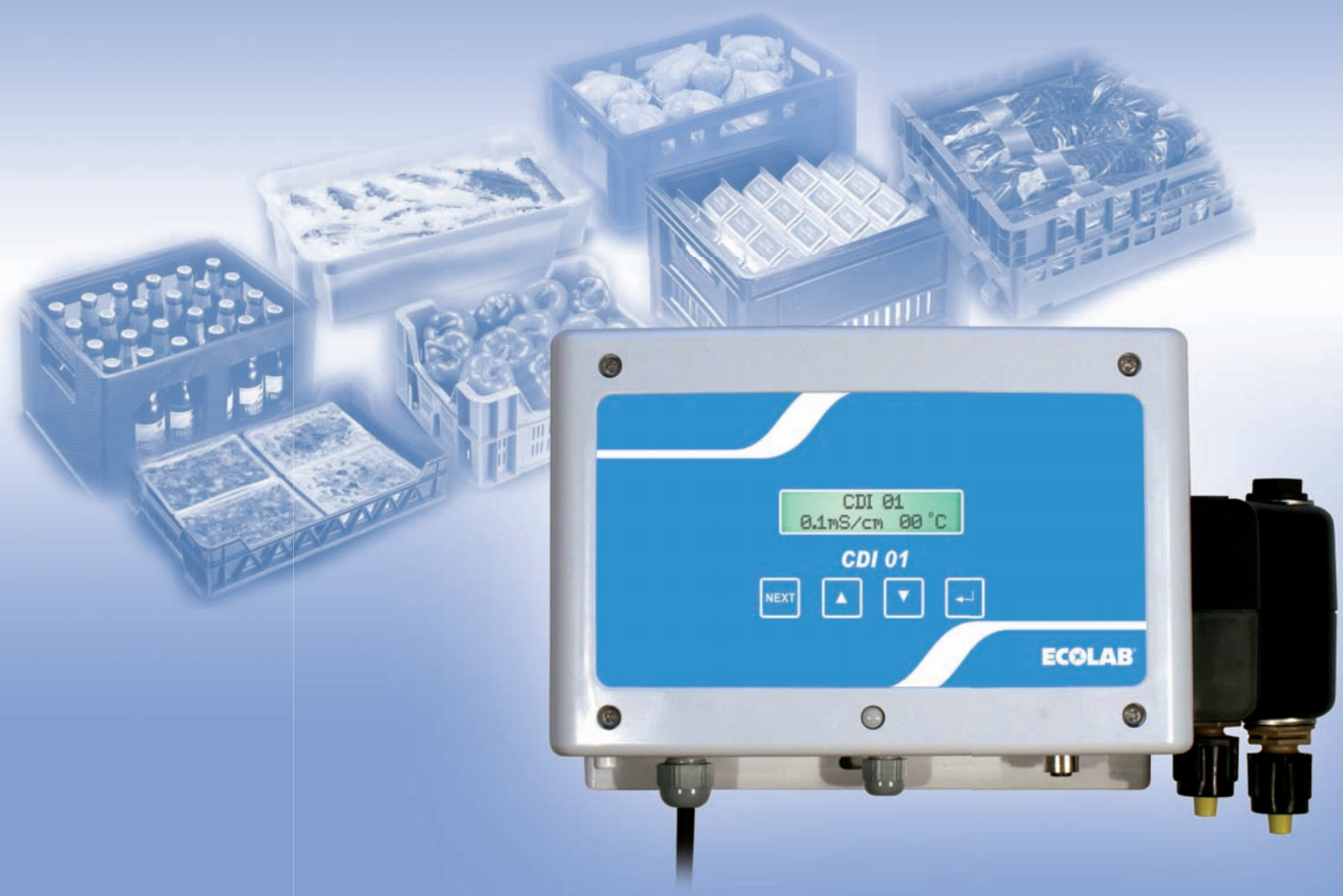
CDI 01

Metering unit with integrated conductivity controller

- ▲ Concentration is detected by a micro-processor
- ▲ Pulse-pause operation
- ▲ Self-learning system - Fuzzy Logic
- ▲ The temperature compensation can be used for alcalic or acid detergents
- ▲ Multilingual menu guidance with back-lit graphic display

The CDI 01 is a diaphragm metering pump driven by an electric motor, and **with integrated inductive conductivity controller**. The unit is used for concentration depending metering of P3 products, alcalic and acid cleaning solutions.

Concentration is detected by a microprocessor on the main board. Over ranging, the concentration is suppressed one by a self-learning system (fuzzy logic). The temperature compensation can be used for alcalic (1,9 % / K) or acid detergents (1,25 % / K).

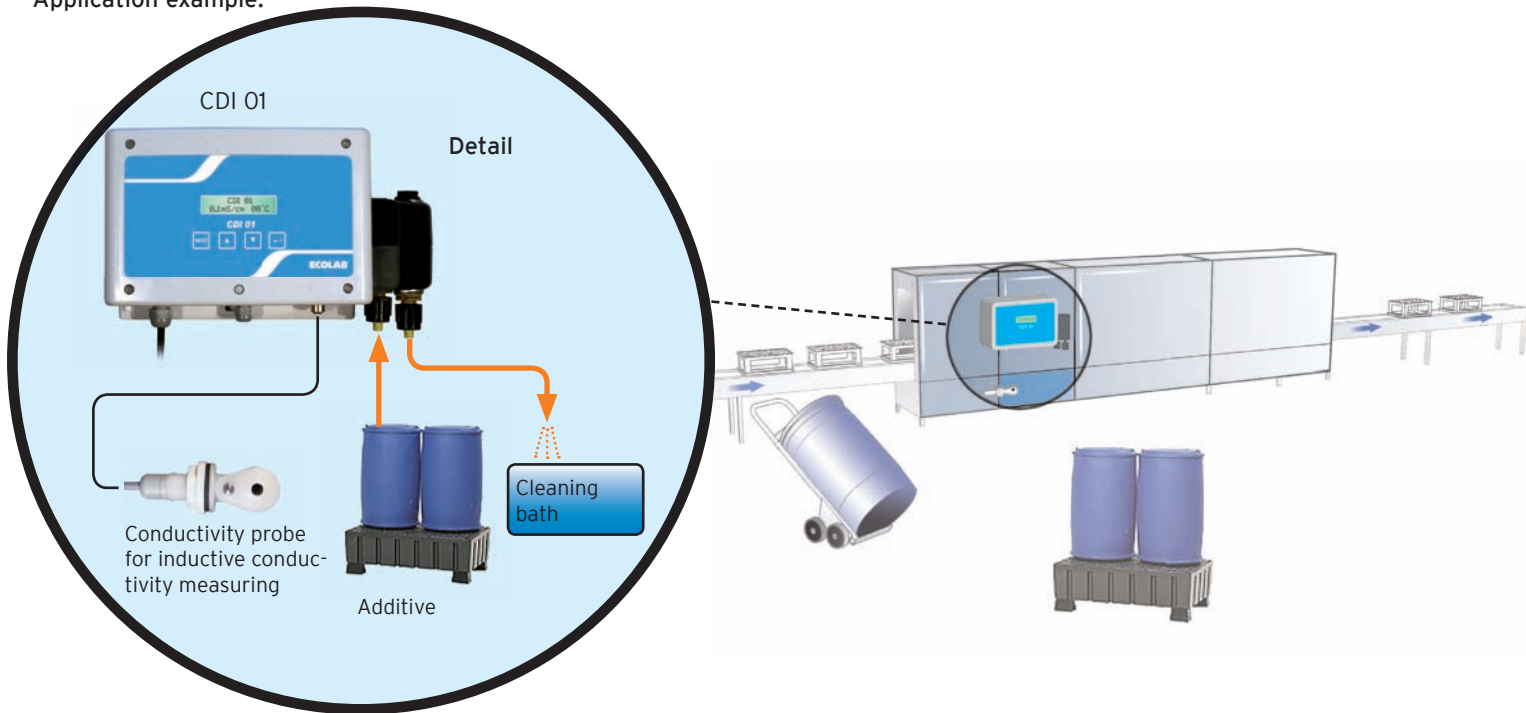


All parameters can be adjusted over the multilingual menu guidance, e.g.:

- ▲ Maximal metering time
- ▲ Manual metering time
- ▲ Empty signal delay
- ▲ Maximal detergent concentration
- ▲ Minimal temperature limit etc.

During the adjustment over keyboard, all values are shown in the display. With the unit CDI 01 and its accessory parts, we offer you a complete delivery performance for the reliable use in the food industry.

Application example:



Technical Data:

Power supply depending on the version:	230 V, 50/60 Hz, 115 V, 50/60 Hz, 24 V, 50/60 Hz
max. power input:	65 mA
Power supply main board:	2 x 12 V AC, 15 VA 50 / 60 Hz
Type of protection:	IP 65
Protection class:	II
Metering capacity:	ca. 15 l/h gegen 0,6 bar
Suction height:	max. 2 m
Inputs on the main board:	- power supply 2 x 12 V AC - conductivity probe, inductive - temperature sensor for the washing tank - detergent empty signal, 5 VAC
Outputs on the main board:	- detergent metering pump, 24 V AC - acoustic alarm, 24 V AC (buzzer) - external valve, 24 V AC
Indication:	two-lined, 16-digit LC-display

Controlling functions:	conductivity control time control
Adjustment ranges:	0 - 200 mS/cm 0.1 - 19.9 mS/cm in steps of 0.1 mS/cm each 20 - 200 mS/cm in steps of 1 mS/cm each automatical switch over to range
Accuracy:	± 2,5% of the conductivity adjustment > 10 mS/cm
Reproducibility:	amplitude fluctuation max. + 2,5 % of the adjustment
Max. metering time:	10 - 9999 Sec.
Manual metering time:	1 - 9999 Sec.
Pre-metering time:	0 - 9999 Sec.
Temperature of the surrounding area:	max. 45 °C
Dimensions:	360 x 110 x 160 mm (w x d x h)
Weight:	approx. 4,8 kg

Ecolab Engineering GmbH
 LANG Industrietechnik
 Postfach 1164, 83309 Siegsdorf
 Tel. +49 86 6261 0
 engineering-mailbox@ecolab.com
 www.ecolab-engineering.de

Ecolab Deutschland GmbH
 Reisholzer Werftstr. 38 - 42
 40589 Düsseldorf
 Tel. +49 211 98 93 0
 www.ecolab.com

