

- Inductive, non-electrode measurement
- Self-optimizing controller
- Maintenance-free and chemical-resistant measuring probe
- Menu-driven user interface
- No measuring errors due to surface effects and polarization
- Adjustable mode of operation:
  - Concentration control
  - CIP phase separation
- Precise, fast temperature sensor
- Digital display of conductivity and temperature
- Two adjustable set points
- USB import function for settings and product data
- USB export function for operating data
- Fault signal output
- Pre-metering output (selectable)
- Time-controlled pre-metering for initial charge
- Adjustable pre-metering time delay
- Metering time limit
- 0/4 - 20 mA – current output for conductivity and temperature
- Compatible with P3-products



The inductive conductivity measuring and control unit **LMI 03** is especially designed for permanent concentration measurement and control of alkaline or acidic cleaning and disinfecting solutions.

The **LMI 03** is designed as a wall-mounted unit. The measuring operates to the electrodeless measuring principle. The conductivity probe is combined with a temperature sensor (NTC).

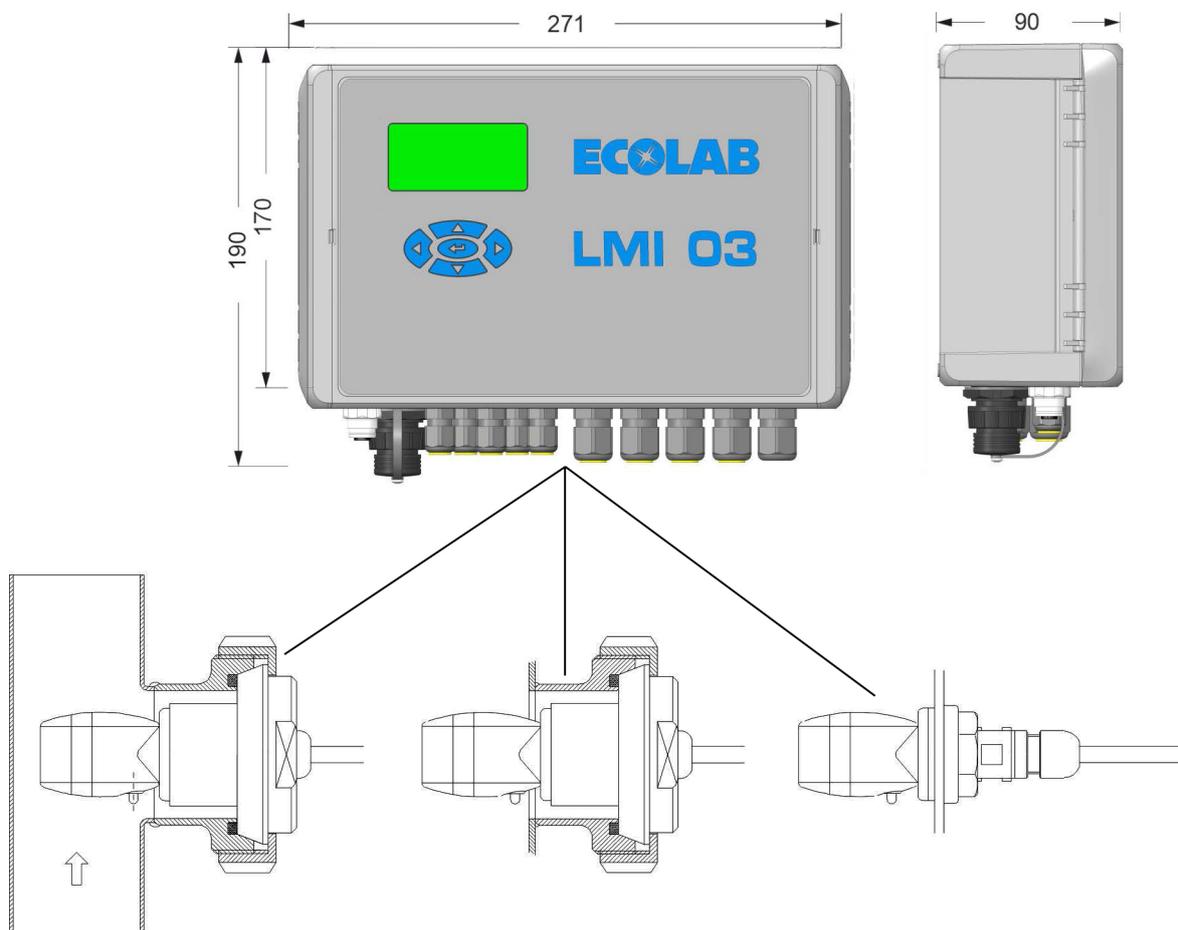
The temperature compensation for **alkaline** products (1.9 %/K) or **acid** detergents (1.25 %/K) is selectable. Front side function keys with a digital display guarantee a simple and reliable operator guidance.

The self-optimizing controller integrated in the LMI 03 keeps the detergent concentration on a constant and precise level.

**Technical Data:**

Housing:	plastic housing for wall mounting
Dimensions:	271 x 190 x 90 mm (w * h * d)
Safety type:	IP 65 according to German DIN 40050
Measurement range:	0 – 500 mS/cm
Conductivity indication:	digital, LC-display with colored backlight
Temperature indication:	digital, LC-display with colored backlight
Temperature compensation:	0 – 100 °C, automatically with temperature sensor NTC 2 possible temperature compensation factors: acid (1.25 %/K) and caustic (1.9 %/K) (ex-works settings)
Pre-metering:	0 – 9999 s, adjustable in steps of 1 s
Pre-metering time delay:	0 – 9999 s, adjustable in steps of 1 s
Metering time limitation:	10 – 9999 s, adjustable in steps of 1 s
Switch outputs:	1 floating change-over contact for SP 1, load capacity 8 A/230 V AC 1 floating change-over contact for SP 2, load capacity 4 A/230 V AC 1 floating change-over contact for fault message signal, load capacity 4 A/230 V AC 1 floating change-over contact for pre-metering (additionally configurable), load capacity 4 A/230 V AC
Current output:	0/4 - 20 mA corresponding to 0 - 100 % of the set measuring range max. electric burden resistor 400 Ω
Inputs:	1 floating make contact for pre-metering start 1 floating break contact for metering lock 1 empty signal input for empty signal monitoring by means of reed contact
Mains power supply:	230 V - 240 V AC 115 V - 120 V AC 24 V AC
Mains frequency:	50 Hz - 60 Hz
Ambient temperature:	0 – 50 °C
Weight:	approx. 3 kg

**Dimensions:**



**Inline-conductivity probe for pipes**

Material No. 287621 (PP) /  
287604 (PEEK)

**Flow fitting with weld-on end**  
Material No. 287507

**Conductivity probe for tank wall installation**

Material No. 287621 (PP) /  
287604 (PEEK)

**Tank welding fitting**  
Material No. 287505

**Conductivity probe for tank wall installation**

(21 mm bore-diameter required)  
Material No. 287413 (PP)

**Ordering data:**

**Article**

**Material No.**

**Conductivity measuring and control unit LMI 03**

10240763

Version 115 V / 230 V AC or 24 V DC

Scope of delivery: 1 LMI 03, 3 Wire bridges, 1 short operating manual