

LMIT10

Conductivity/Temperature Transmitter

The LMIT10 is a conductivity and temperature transmitter which is used to analyze and differentiate liquid media for CIP applications, concentration monitoring and make-up. It provides either the direct measured conductivity or the calculated concentration value. Additionally, the measured temperature is also available as output. Due to its hygienic and robust design it meets the highest industrial standards.

KEY PRODUCT BENEFITS

- Reliable, accurate measured values even in case of frequent temperature changes
- High precision measurements
- Particularly fast response time
- Robust sensor housing made of stainless steel
- Optimal for CIP cleaning as well as industrial cleaning processes and water treatment
- Calibration and parameterization directly on site
- Sensor adjustment using intuitive touch display
- Straightforward process visualisation
- All information at a glance
- Status visualisation by way of backlighting
- Selectable visualisation of measured values
- IO-Link dual channel for easy commissioning
- 3-A sanitary standards, FDA-compliant, EHEDG-certified

There are two different models:

- wall-mounted version with separated sensor
- compact version with integrated sensor



LMIT10 product overview

Features	Industries	Media edge conditions	Process connections	Wetted parts material	Available measurement ranges	Accuracy
Conductivity and concentration	Food & Beverage	Process temperature	G1" hygienic adaptors to most hygienic connections	PEEK Natural	0...500 µS/cm	± 1.5% FSR
Temperature measurement	Pharmaceutical	-20...+140°C			0...10 mS/cm to	
Fast response time	Water / waste water	150°C for max 1hour	*It is essential to order the Varinline hygienic adapter when replacing an LMITO9	Surface roughness Ra ≤ 0.8 µm	0...500 mS/cm	± 1.0% FSR
Resistant to high ambient temperature		Process pressure ≤25 bar.			0...1000 mS/cm	± 1.5% FSR
					Response time, T90 = ≤ 2 sec.	
					-20°C...150°C	< 0.4%
					Response time, T90 = 15 sec.	(of selected range each)

Housing	Measuring principle	Output signal	Electrical connection	Interfaces	Standards & Approvals	Specific Information
Stainless steel	Inductive toroide	2 x 4...20 mA	1 X M16x1.5 1 X M20x1.5 Plastic cable gland	Graphical display DFON programable by touch screen or external Flex-Programmer, IO-Link	3-A	Insertion length:
AISI 304 (1.4301) Plastic IP67 (cable gland)		2 x relay contact	Or 1XM12-A 5-pin 1XM12-A 8-pin Stainless steel AISI304 (1.4301)		EHDG FDA CE UL	60 mm Cable length wall-mounted version 5/10 m

Factory set product data

Detailed product data of the cleaning agents/disinfectants and standard products is stored and thus allows a direct report of the product concentrations on the display. At the same time, nonlinearities in the product curves and of the temperature dependencies are automatically compensated. The LMIT 10 conductivity/temperature transmitter not only stores the concentration graphs and temperature compensation factors of the common detergents and disinfectants but also allows programming of corresponding data for other conductive products.

Ansep ALU	Ansep CIP	Aquanta OP	Aquanta PA	Aquanta PC	Aquanta SI	Aquanta XTR
COSA CIP 72	COSA CIP 77	COSA CIP 92	COSA CIP 95	COSA PUR 83	COSA PUR 84	H2SO4 40%
HNO3 48%	Horolith BSR	Horolith CIP	Horolith FL	Horolith KEG	Horolith MSW	Horolith PA
Horolith PM	Horolith TR	Horolith USP	Horolith V	MIP 100	MIP ALU	MIP EA
MIP HP	Mip LF-T	MIP RC	MIP SP	NaOH	Oxonia act S	Oxysan CM
Polix XT	Risil MAT	Tresolin CIP	Trimeta DUO	Trimeta OP	Trimeta PLUS	Trimeta PSF

Version with plastic cable glands* Model:	EBS	Version with stainless steel M12-A plugs** Model:	EBS
LMIT10 wall-mounted 5M IO-link	10240833	LMIT10 wall-mounted 5M IO-link	10241224
LMIT10 wall-mounted 10M IO-link	10240834	LMIT10 wall-mounted 10M IO-link M12	10241225
LMIT10 compact IO-link	10240835	LMIT10 compact IO-link	10241226
* note: the plastic cable gland version comes with a standard test protocol.		** note: the stainless steel M12 plug version comes with a conductivity/temperature calibration certificate and 3.1 inspection certificate.	

Ecolab Global Headquarters • 1 Ecolab Place • St. Paul, MN 55102-2233 • USA • Tel: +1-800-352-5326
Ecolab Deutschland GmbH • Ecolab-Allee 1 • D-40789 Monheim am Rhein • Germany • Tel. +49 2173 599 1900
Ecolab Engineering GmbH • Postfach 1164 • 83309 Siegsdorf • Germany • Tel. +49 8662 610

