

Low level limiter

LMC2

Application and function

The type LMC2 evaluator is used to limit a low level in e.g. steam boilers. In conjunction with level probes, it is a limiter with a safety function in accordance with the PED.

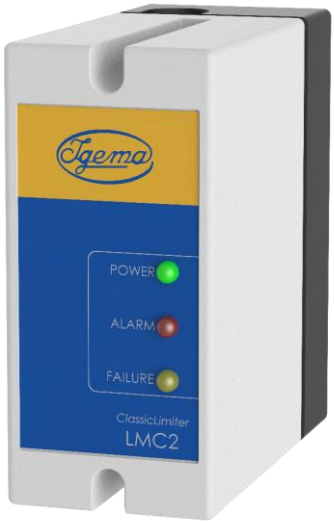
The LMC2 complies with the requirements of EU Directive 2014/35/EU // 2014/30/EU. Applied standards:

AD2000;

DIN EN 12952-11; DIN EN 12953- 9; DIN EN 61326-1; DIN EN 61010-1

With the help of the conductive measuring method, which utilises the conductivity of the medium, the emerging or submersion of the electrode is detected. If the electrode tip emerged, a voltage is generated at the measuring resistor by the flowing alternating current and the contacts of the safety chain are closed. If operation is correct, the electrode is submerged, and the safety chain is released. The current system status is indicated by the different coloured LEDs.

The limiter constantly performs self-monitoring, which guarantees its safety function and can be used in systems with safety requirements up to SIL3 level. A test button is therefore not necessary.



LMC2

Technical basic equipment

- SMLC2 in plastic plug-in housing for installation in switch cabinets
- Quick fastening with spring catch on standard 35 mm mounting rail to DIN EN 50022 or screw fastening on mounting plate

Version 08/2026
Subject to technical changes.

Technical data

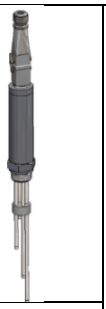
Article-No.		20-00116	20-10120
Mains connection		230V AC *(-15% +10%)* 50 Hz	24V DC
Power consumption		3,0 VA	3,0W

Safety chain[1])	Switching voltage (max.)	230V AC	24V DC
	Switching current (max.)	4A ohmsch	4A
Additional messages[1])	Switching voltage (max.)	230V AC	24V DC
	Switching current (max.)	4A ohmsch	4A
Protection class according to DIN EN 60529		IP40 [2)]	
Self-monitoring		every 2 seconds	
Permissible ambient temperature		0°C< Tamb <55°C	
Electrical conductivity of the liquid		0,5 µs/cm ≤ æ ≤ 10.000 µS/cm	
Length of the connecting cable		max. 100 m	
Device fuse		Short-circuit proof transformer	
Measuring cable (data exchange)		shielded, cores Ø = 0,75 mm²	

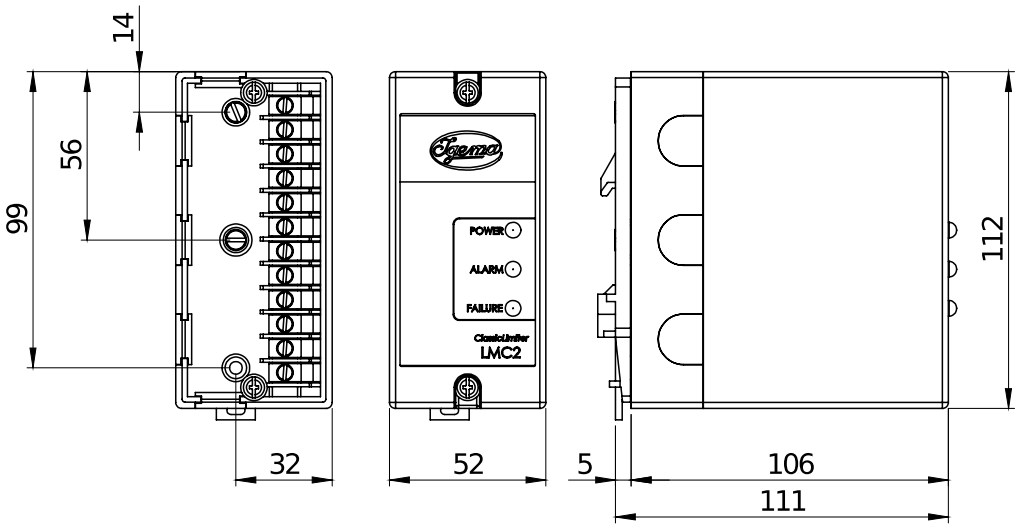
[1)] A contactor must be used for inductive / larger loads
[2)] In accordance with EN 12953-9 // EN 12952-11, 4.3.4, protection class IP54 must be ensured in the boiler area. Switch cabinet installation is therefore required.

Probes

perm. pressure **[PS]**	perm. temperatur **[TS]**	Probe for use with the LMC2		Connection	Electrode length Y
32 bar 464 psig	237°C 458°F	EL041		G 1/2"	125mm bis 1700mm
		EL041-B		G 3/4"	
		Datenblatt: D-08-D-50282-EN			
32 bar 464 psig	237°C 458°F	EL913 EL913-B		G 1“	60mm bis 1500mm
		Datenblatt: D-08-D-50337-EN			

32 bar 464 psig	239°C 462°F	EL914		G 1“	60mm bis 1500mm
		Datenblatt: D-08-D-50342-EN			
200 bar 2900 psig	367°C 692°F	EL241		G $^{1}/_{2}$"	126mm bis 1700mm
		Datenblatt: D-08-D-64066-EN			

Dimensions and sizes



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