

Leak detector and localizer BAMOLEAK



- Leak localization
- Length up to 3,000 metres (12 areas)
- Automatic recognition of loop parameters
- Event recording (date / time)
- Outputs: 4-20 mA, MODBUS RTU, relays

APPLICATIONS

- Building automation
- Datacenters
- Semiconductor Industry
- Clean rooms
- Archives storage / Libraries / Museums
- Heating and air conditioning systems
- Switching centers, computers room

DESCRIPTION

BAMOLEAK allows to secure work areas where leaks are prejudicial for equipments, by detecting and precisely locating leaks of conductive liquids. The sensor (cable) is laid along the monitored area or pipeline, and, connected to the evaluation unit. Leakage is detected by the converter, which determines, records and reports information via the analog output, relays and the RS485 Modbus interface.

Two complementary detectors can be connected to the converter such as MAXITOP LWC (Detection in double-walled tank, data-sheet 556-03) or LWC-B (Local floor detector, data-sheet 556-05).

Note: BAMOLEAK can locate one leak at a time.



TECHNICAL FEATURES

Power supply	Or 100 ... 240 V AC - 50/60Hz Or 10 ... 30 V DC; 12 ... 24 V AC
Consumption	2 ... 5W
Contact outputs	5 contacts, adjustable, potential-free To set as, or N.O. or N.C. contact

Note:

All contacts are open when de-energized

Switching power	250 V AC, 2 A / 30 V DC, 1 A
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Caution:

Contacts are not protected against overload, provide an external protective device.

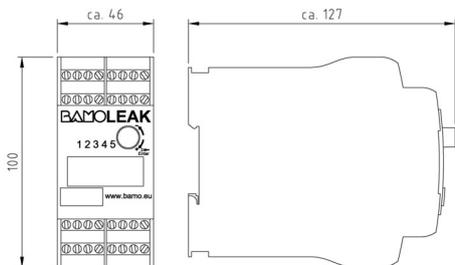
Maximum cable length	3,000 m
Housing	46 x 100 x 127 mm Rail mounting (DIN EN 50 022; 35x7.5 mm)
Protection	IP40

Note:

The protection against accidental contact according to DIN EN 61010-1 is only guaranteed when the unit is installed in a closed cabinet with a protection IP5x or greater.

Ambient temperature limits	-10 ... +45 °C
Sensor (cable) temperature limits	-50 ... +150 °C
Connectors temperature limits	-20 ... +60 °C

DIMENSIONS



BAMO INTERNATIONAL

22, Rue de la Voie des Bans · Z.I. de la gare · 95100 ARGENTEUIL

Tel +33 (0)1 30 25 83 20 Web www.bamo.eu

Fax +33 (0)1 34 10 16 05 E-mail export@bamo.fr

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LEV

544-50/1

14-10-2020

D-544.50-EN-AE

TECHNICAL FEATURES (CONTINUED)

Wall-mount cabinet (Option)	175 x 200 x 155 mm
Screw terminals	Screw connectors, cable diam. Max. 1.5 mm ²
Detection areas	12 areas; Setting of name/ TAG to each one
Accuracy of leak localization	< 1 %; ±1 m
Measuring loop	1 input for the 4 poles sensor (cable) 2 additional inputs for 2 one-point detectors (e.g. MAXITOP LWC or LWC B)
Power supply to the detection loops	Localization with sensor (cable): Max. 20 V AC/DC; Max. 5 mA One-point detectors: Max. 30 mA (each)
Analogue output 4-20 mA	Active signal output (with its own loop power) 4 ... 5 mA: No alarm 5 ... 20 mA: Localization of the detected leak point = [cable length x (current value - 5mA)] / 15mA 21 mA: Fault, error message
Adjustable timer	When detection occurs: 0.5 to ... 5 minutes delay before signaling
Real time clock	integrated clock with battery, automatic summer time switch can be activated
Records	Automatic record of all events, max. 48 inputs, events can be acknowledged and deleted, individually
Language	To choose between English, German, French, Spanish, Portuguese, Polish
Key protection of settings	4 digits; Can be deactivated
Signaling interface	Display: 2 line-text LCD Status of contact outputs 5 LED (multicolour)
Digital communication	RS 485 / MODBUS
Sélecteur	Rotary switch on front panel

EC Conformity: The instrument meets the legal requirements of the current European Directives

CODE NUMBERS AND REFERENCES

Components of a BAMOLEAK system



Code	Reference	Description
544 450	BAMOLEAK CUB/220	BAMOLEAK converter, DIN rail mounting, 100 ... 240 V AC
544 460	BAMOLEAK CUB/24	BAMOLEAK converter, DIN rail mounting, 10 ... 30 V DC; 12 ... 24 V AC
544 489	WME2	Wall-mounting cabinet with DIN rail, cable glands.

Accessories:

Code	Reference	Description
544 470	BAMOLEAK CD	Cable sensor, per metre; Length up on request
544 480	BAMOLEAK CET/M	M12 male connector for sensor (cable)
544 481	BAMOLEAK CET/F	Connector M12 female for sensor or ending resistor
544 482	BAMOLEAK REP	Ending resistor
544 485	BAMOLEAK CR	Connection cable, extension, per metre (Length: up on request)
544 486	BAMOLEAK M	Factory mounting: Connector on cable (on request)
544 202	WM25	Floor leak detector
556 500	MAXITOP LWC B	Floor leak detector

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