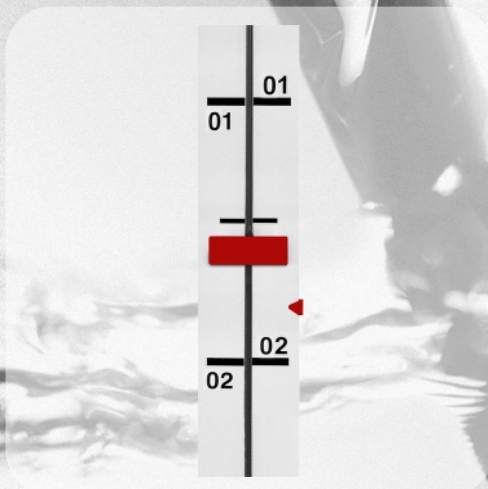


BAMO



PRODUCTS GUIDE



Phone: +33 (0) 1 30 25 83 20 - www.bamo.eu

SENSORS AND INSTRUMENTATION FOR FLUID CONTROL

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Chlorine & biocides

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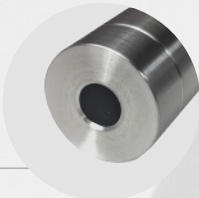
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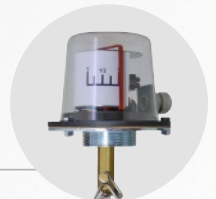
IoT: BAMO connected

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Fuel level gauges

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Temperature

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Pressure

Page 24



Plastic and metal valves

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Find all our technical and commissioning information on our website: www.bamo.eu

pH/ORP indicator & controller **BAMOPHAR 107**

Interface: 480 x 272 pixel resolution touchscreen
 Display: measurements, T°, setpoint status
 Measurement ranges: pH, mV
 2 analog outputs 0/4-20 mA
 3 control modes
 4 configurable relay outputs
 Panel-mounted or wall-mounted enclosure IP 65

OPTIONS

- RS 422 or 485 J-BUS link
- Logger 150,000 records
- Ethernet link
- Modbus TCP/IP link



Turnkey wall-mounted assembly

107-01

pH / ORP electrodes

Combined electrodes **pH/mV electrodes**

Compatible with standard pH meters
 Combined probes (measurement + reference)
 S7-type plug-in connectors
 No-fill gel electrolyte (KCL)

Special cold: -30 to +30°C
 Standard: -5 to +60°C
 High temperature: -5 to 100°C



150-01

Combined electrode without liquid junction **Series 2000**

High chemical resistance
 Resists up to 20 bar
 Extended lifespan
 S7 plug-in connectors
 No liquid KCl leakage



150-03

Probe holders

Holder for in-line measurement **Series 9200 & 9500**

1 to 3 electrodes pH/ORP
 Material: PVC, PPH, PVDF, Stainless Steel
 Fittings: unions for solvent welding flanges

140-01 142-01



Pipe insertion measurement support **9400 & 9410**

In-flow insertion & removal
 Fitting : thread 3/4" BSP
 or weld-on boss

141-01 141-02



Holder for immersion measurement **Series 9300**

With protective end cap for glass electrodes
 1 to 3 electrodes pH/ORP
 Adjustable flange
 Material: PVC - PPH - PVDF - Stainless steel

OPTIONS

- Automatic sprinkler cleaning system
- Integrated Pt 100 sensor
- Water retention bucket
- Probe and/or indicator holder with extended support arm

130-01 135-01 143-01 145-01



Custom-made in our workshops

Chlorine & biocides

Controller & indicator BAMOPHAR 194

Measuring range for free chlorine, total chlorine, chlorine dioxide, ozone, hydrogen peroxide, peracetic acid.

Interface: Color touch screen
1 PT100 Ohm temperature input
2x 0/4 -20 mA outputs (ppm or g/l and T °C)
4 relays (Thresholds, alarm and/or regulation)
Options: RS 422 /J -BUS+ LOGGER



194-02

Measuring electrodes Amperometric sensor with or without diaphragm

Maximum 70 °C @ 6 bar
No zero calibration
Response time to 90% < 2 minutes
Integrated temperature compensation
Long electrode lifespan
Low maintenance costs
Option: Self-cleaning

CL/CS/CC/AS	Free chlorine
CP	Total chlorine
BR	Brome
CD	Chlorine dioxide
OZ	Ozone
WP	Hydrogen peroxid
P	Peracetic acid



193-xx

Measuring cells DF01/20/21

For amperometric sensors and/or pH/ORP electrodes

Operating pressure up to 8 bar
Operating temperature up to 80 °C
Flow control and indication
Flow setting via needle valve
Sampling valve



193-95

Measuring electrode CCK

For cooling water, free chlorine detection before reverse osmosis, chlorine dioxide measurement

Measurement ranges: 0.01 to 20 mg/l
Reversible voltage for electrode auto cleaning
Maximum permissible pressure: 10 bar
No zero calibration required



193-12

Wall-mounted assembly

Complete systems for swimming pools, aquariums, domestic hot water networks, cooling circuits, flow monitoring before reverse osmosis, etc.



Conductivity – Resistivity

Indicator & controller

Conductivity (Siemens) and resistivity (Ω)

BAMOPHAR 323 & 364

Interface: 480 x 272 pixel resolution touch screen

Measuring ranges :

BAMOPHAR 323

0 - 2 k Ω .cm to 0 - 200 M Ω .cm
0 - 2 μ S /cm to 0 - 2 mS /cm

BAMOPHAR 364

0 - 2 mS/cm to 0 - 2000 mS /cm
Concentration NaOH, NaCl, HCl

Automatic or manual temperature compensation

OPTIONS

- RS 422 ou 485 J-BUS link
- Logger 150 000 records
- Ethernet connection
- Modbus TCP/IP link



323-01 364-04

Probes for BAMOPHAR 323

2-pole conductivity cell

Immersion or in-line measurement

Series: BS - BC - BF 1200

Cell factor : 1 - 0,1 - 0,01

Measuring ranges : 0 - 2 μ S /cm to 0 - 2 mS /cm

T° compensation by integrated or independent Pt 100 Ω sensor

Coaxial probe material: 316 stainless steel

Electrode materials: PSU body with Graphite measuring elements

Different process fittings

Overhead connection by box, connector or pre-moulded cable

360-01 361-01



Probes for BAMOPHAR 364

Inductive conductivity probe

In-line measurement

Series TOR: TCL S50 and TCS 3020

Measuring ranges :

0 - 2 mS/cm to 0 - 2000 mS /cm
Concentration NaOH, NaCl, HCl

Model TCS 3020 (NORYL construction)

Model TCL S50 (PEEK construction)

Integrated temperature sensor for automatic measurement compensation

In-line or immersion probe holders :

Stainless steel, PVC, PPH,
(custom-made on request)



TCS 3020

TCL S50

364-01 364-05

Dissolved oxygen

Oxymeter BAMOWIZ 452

Measurement: 0...20 mg/l, or 0...500 %

480 x 272 pixel resolution touch screen
2x analog 0/4-20 mA outputs
3x configurable relay outputs
IP 65 wall-mounted enclosure

452-01



Porte holder 9453

Immersion measurement

Tube PVC Ø 50,
Standard length 2 meters,

Adjustable flange

Easy installation



Optical sensor BAMOX 453

Measurement from 0 to 20 mg/l
Optical luminescence measurement
Temperature-compensated digital signal
Easy, low-maintenance operation
Flow-independent measurement
Stainless steel, titanium or PVC/POM version

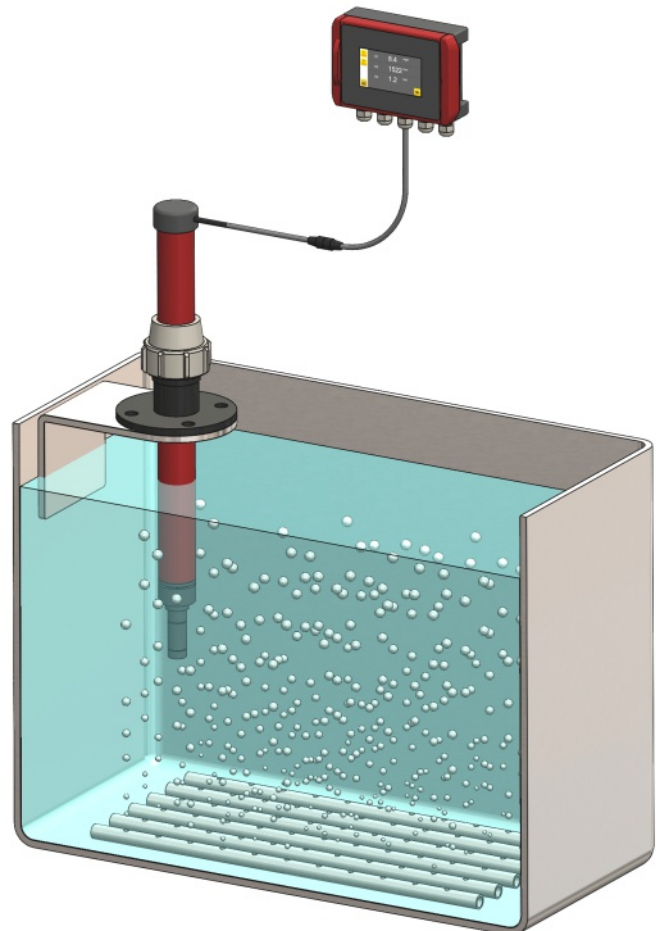
453-01



Dissolved oxygen measurement in aeration tank



Dissolved oxygen measurement in seawater



Turbidity

Turbidity continuous measurement

Applications :

- Drinking water monitoring
- Wastewater treatment plant discharge
- Settling tank measurement
- Monitoring of filters

Programmable display and contacts

BAMOWIZ 217

- Color touch-screen
- 2x 4-20 mA Inputs
- 1x Frequency Input
- 1x 4-20 mA output
- 3x relay contacts (8 configurable thresholds)
- 1x RS485 Modbus serial link

217-01



In-line measurement TURBICUBE / GAB

Measurement according to ISO 7027
Range : 0,01...2000 FAU
Analogic output : 0/4-20 mA

Stainless steel, PVC or PPH fittings
Threaded or flanged connections

444-01 446-01



Immersion measurement TURBISENS 2

Range : 0,01...2000 FTU
Analogic output : 0/4-20 mA
Maximum immersion depth : 10 m
High resolution from 0,01 FTU

443-02



Turbidity detection

Immersion turbidity detection CP5 to associate with turbidity controller GS5

For open tanks, pipes, channels, etc.
Maximum immersion depth: 10 meters
Sapphire lenses
Detection threshold adjustable from 50 to 30,000 FAU

425-03



Turbidity controller TURBISWITCH GS5

- LED display in '%' of selected range on front panel
- 3 turbidity detection ranges (low / medium / high)
- Adjustable contact delay and hysteresis
- 2 contacts (N.O.), potential free
- 1 fault contact (N.O.), potential free

410-03



Underwater settled solids detector MUDSonic MF & TS

Detection of solid particles in water by ultrasonic absorption measurement

- 3 detection ranges
- Adjustable delay and hysteresis
- 2 contacts(N.O.), potential free
- 1 fault contact(N.O.), potential

426-02



Portable sludge level control unit MUDline® TGS

Combination of a turbidity controller and a piezoresistive level sensor

- Sludge level in settling tank
- Septic tanks, wastewater lift stations, etc
- Easier control of systems on the road

Compact unit (3 kg) with 10 m cable
Audible alarm, 3-digit display LCD
Built-in rechargeable battery (capacity for 100x 7-minute test cycles)

426-01



Auto control: Flow monitoring

Display - Calculator - Logger BAMOPHAR 759

Color touch-screen
 1x 4-20 mA input for level sensor
 Integrated flow curves for standardized open channels
 Instant and cumulative flowrate measurement
 1x 0/4-20 mA output
 4x relays (alarms, sampler control and pulse output)

OPTIONS

- RS 422 or 485 J-BUS link
- 150,000 recordings logger on SD card
- Ethernet link



759-03

Level measurement

Ultrasonic sensor BAMOSONIC

Open channel measurement
 No contact with fluid
 4-20mA Loop powered (2-wired)
 Compact IP 67 enclosure
 Option: Support with protective cover

755-03



To associate with BamoPHAR 759

Measurement by bubbling BAMOBUL

For wastewater with presence of foams
 4-20 mA level output
 Blocked or cut pipe alarm
 Enclosure: IP 55 - Wall-mounted

758-01



Example of installation with civil engineering

Weir and venturi channels

V-notch weir systems DEBITBAC

NF X10-311 compliance

Made in PVC or HDPE
 Low flow-rates from 1 to 80 m³/h
 Simplified installation

755-02



Weir system with pH/T° probe holder & level sensor

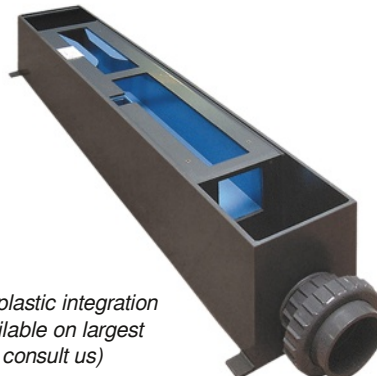


Open channels DEBITFLO

ISO 4359 compliance

Made in composite material
 Flow-rates from 0.22 to 2500 m³/h
 Venturi with or without approach channel
 To insert in civil engineering
 or option ready-to-install, ready-to-connect plastic integration

755-01



Option: plastic integration (not available on largest models: consult us)



Auto control: samplers

Complete industrial system
Fully modular
Low maintenance costs!



Automatic sampling station **AQUACELL**

Wastewater sampler
Creation of representative samples

Mains powered
Programmable time and flow rate
Transfer speed greater than 0.5 m/s

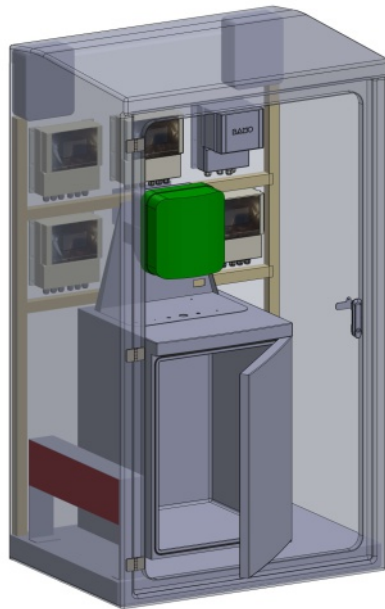
Instrumentation

Flow measurement, pH, recording...



Equipped refrigerator

- Support plate for AQUACELL
- Removable sampler



Polyester cabin:

- Outdoor installation
- Reinforced and secure
- Anti-corrosion
- Integrated rain canopy
- Rigidified door with 3-point locking system



1 to 24 flacons with automatic bottles



Portable sampler

For itinerant controls
AQUACELL P2



Lightweight, compact and robust
Battery or mains-powered

476-02

Side level indicators

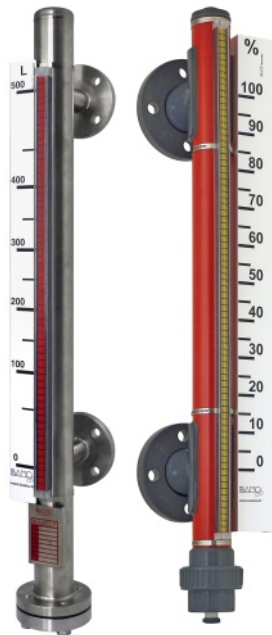
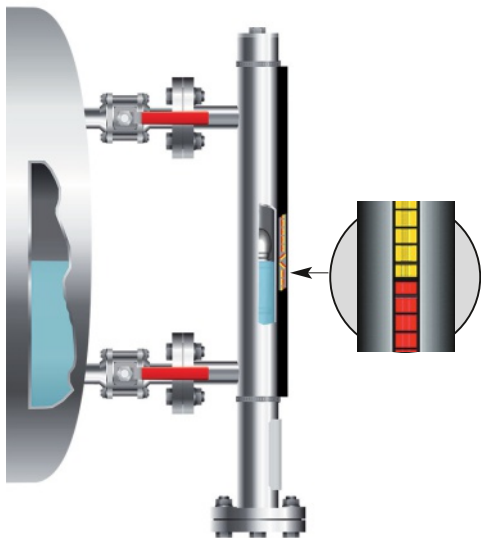
Side mounting level indicator MAGTOP series

Level reading via bi-color swivelling blades

Material : Stainless Steel, PVC, PPH, PVDF
On-request design and fittings

EX version : consult us

560-01



GNR 5 series

Level visualization through translucent tube :
Glass or PVC Ø 32 or 63mm

Material :
Brass, AISI 316, PVC, ou PPH

Fittings :
Flanges or threaded unions

Float : PPH, magnetized

570-01



Accessories:

- Bistable changeover contacts : BSM 502 or BRK 60
- Signal output 4-20 mA
- Graduated ruler with customized units (*height, %, volume, weight...*)

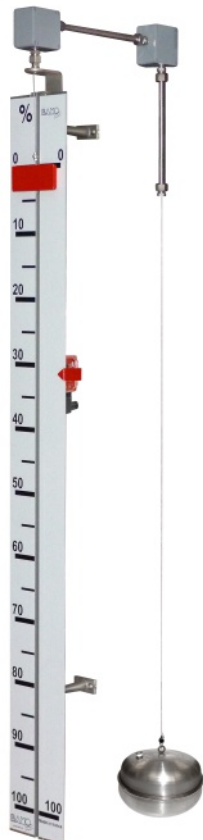


Cable and pulley level indicators

Outdoor level indicator JAR

Aluminium / Stainless Steel
Suited to outdoor conditions
Better reading from afar
For important heights
Graduated ruler in %, m³ or other
Protected pulleys with no-jump system

582-01



Indoor / gastight level indicator SFA

Models :

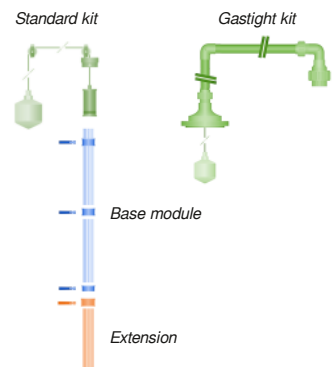
- SFA for open tank
- SFA /E for gastight fittings
- Float : PVC / PPH / PVDF / AISI316
- Cable : PPH / PTFE / AISI316

583-01 583-02

Modular sets to adapt on site:

Available on stocks
Base height 3.20 m in 2 parts
Extendable in 1.60 m sections

583-05



Gauges and level control

Limnometric scales

Visualization of water levels in dams, reservoirs, basins, canals, etc...

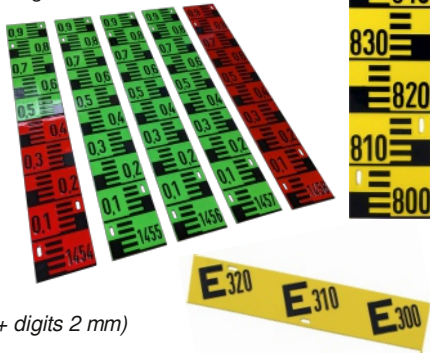
- Robust construction, (cast-iron d'aluminium) 2.5 Kg /m
- Comfortable reading on large viewing width (15 cm)
- Vertical or inclined mounting
- Corrosion / weather / seawater resistant

Plastified paint (Polyester Isocyanate)
Graduations (cm, m, dm)
Black markings on yellow background,
Customization : consult us

581-01



(Support : thickness 5 mm + digits 2 mm)



Tank top level indicator Série FS4

- Ideal for drums or buried tanks
- Level indication at top of tank
- Flange or spigot mounting
- PVC or PPH version
- Magnetic index for contact
- Custom-made to suit fluid density

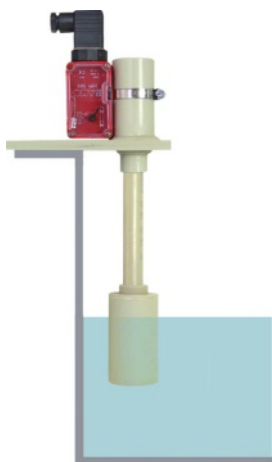
584-01



Level controller SECURICUVE

- Low level detection
- Initially designed to protect surface treatment baths against the risk of overheating due to leakage, evaporation or filling control faults.
- Active security
- Easy functional verification
- Float, tube & support material :
 - PPH / 105 °C max
 - PVDF / 140 °C max

584-02



Accessories

For SFA, SFA/E, GNR, MAGTOP series

Magnetic level contacts BRK 60 - BSM 502

Compatibility with MAGTOP / GNR floats and SFA counterweights
Bistable changeover contact
Switching capacity 500 VA, or 60 VA
For level tubes in glass, stainless steel, PVC, PPH
Fixing: Stainless steel or plastic clamps

585-02 585-01



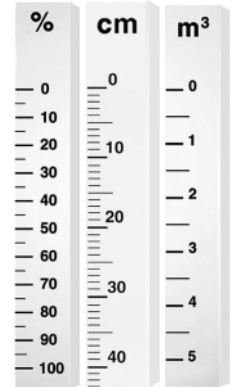
PVC graduated scales For SFA, GNR, MAGTOP series

Units : %, height, volume, weight...
Fixing with collars

Draft drawing validated by you
before any production

Equipment with heights of over 5
meters are delivered in two interlocking
parts.

583-03



Spare parts or complete sets

Counter weights

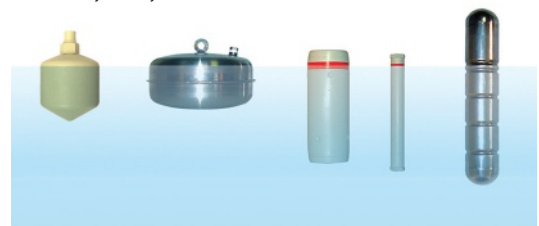
583-03



Pulleys



Stainless steel, PVC, PPH floats



Resistive level controller ES 2001

Monitoring of a level point (overflow/dry run alarm) with double electrode

Level regulation (filling/draining) between 2 thresholds (3 rods)

Can be used with conductivity electrodes or potential free contacts

Adjustable timer and sensitivity

530-01



Resistive level probe

For conductive liquids

STE

1 to 5 electrodes
AISI316 or Titanium
PPH/AISI316 fittings
PBT IP65 Housing
Option rod insulation

540-01



TVI

1 to 4 AISI316 electrodes
For high pressure /
temperature applications
option PTFE insulation
Aluminium IP 55 housing

541-01



HE&HS

1 to 5 flexible electrodes
in AISI316 or vitrified graphite
PVC or PE cable
Customizable cable lengths

542-01



EF

For drilling wells
Compact design
AISI 316
Long cable length on
request

542-02



Magnetic float level switch MNR6 & MNR7

Magnetic float + REED contacts (ILS)
From 1 to 4 bistable changeover contacts
Option continuous transmission (RTM type)
Models: PVC, PPH, PVDF, Stainless steel

550-01

550-02

551-01



Side level float switch NIVOMAG

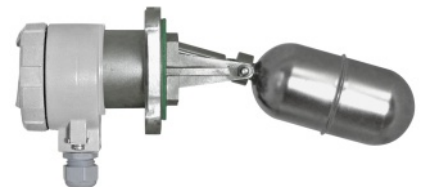
For liquids on all types of tanks

Version for neutral, basic or acidic fluids

Horizontal or vertical mounting
Maximum pressure 25 bar
Fixed or adjustable hysteresis
Epoxy-protected aluminum housing
Contact Micro-switch NO / NC

Option Ex agreement

524-01



Vibrating fork level switch NIVASWITCH

For liquids on all types of tanks
Suited for viscous fluids

No moving mechanical parts

Stainless steel probe from 69 to 3000 mm
Output 1 or 2 relays
Option Ex agreement

513-01

513-03



Leakage & Overfill level detection

MAXIMAT sensors for environmental protection

Detection in pipe double-wall MAXIMAT LW-CX SDR

Capacitive high-frequency sensor
Material PVC or PE
Transparent viewing tube

556-04



Alarm unit TC1

1 channel alarm unit for
overflow or leak
detectors

555-10



Alarm unit TC4

4-channel alarm unit, for overflow or
leak detectors

555-07



Leak detector MAXIMAT LW-CX

Universal, for all non-combustible
conductive liquids

Ø 40 or 25 mm with fixation system

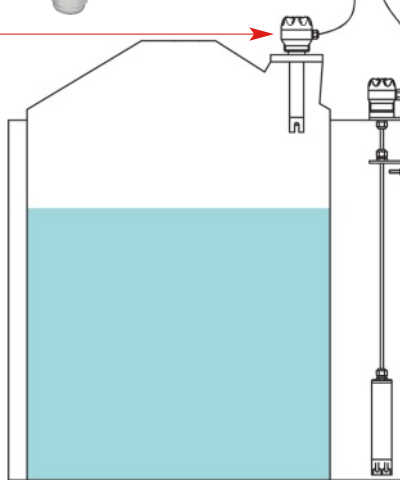
556-07



Overflow sensor MAXIMAT CX

Capacitive high-frequency sensor
Material PE / PP / PVDF
Ø 40 or 25 mm with adjustable
and lockable immersion depth

556-06



Rail mounting SHR CS

Loop monitoring
Reporting contacts
LEDs alarm

555-06



Certificates for MAXIMAT® series:

- WHG / Germany
- KVU / Switzerland
- GOST / Russian federation
- Vlarem II / Belgium

Safety: Leak detection, flooding

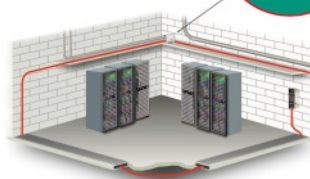
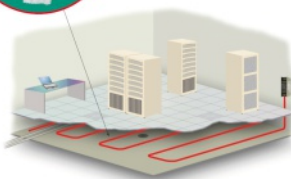
Leak detection

LISA (detection at first drop)

The LISA system is used to detect leaks on water installations (pipes, sprinklers) and to protect sensitive equipment or premises (computer rooms, electrical cabinets, museums, storage centers, etc.).

- Alarm before flooding
- Loop self-diagnosis and LED affichage
- Protection of equipment or sensitive areas
- Adaptable to any surface

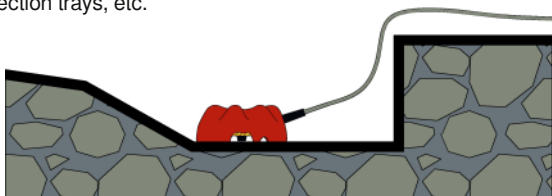
544-03



Ground leak detection MAXIMAT LWC BX

For conductive liquids
Floor-level leak detection for
tanks, collection trays, etc.

540-02



Leak detection & location BAMOLEAK

Length up to 3000 metres (12 zones)
Automatic sensor recognition
Incident recording
Outputs: 4...20 mA, MODBUS RTU, relays

544-50



Level transmitters

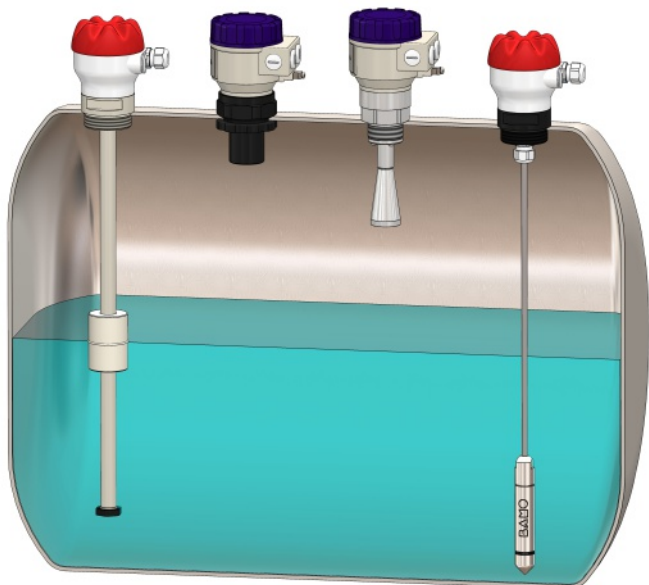
Display + programmable contacts

BAMOWIZ

- Graphic color touch screen
- Customizable units and range
- Can be used with any 4-20 mA sensor
- 2x 4-20 mA inputs
- 1x 4-20 mA programmable output
- 1x Frequency input
- 3x potential free NO contacts
- 8x programmable thresholds
- 1x RS485 Modbus serial connection



217-01



**Level sensor
no contact with fluid**

Compact ultrasonic level transmitter BAMOSONIC

Measuring distance from sensor: 0.2 to 8 meters

- 4-20 mA loop power supply
- Fittings: 1 1/2" or 2" BSP thread
- IP 67 housing (IP 68 with cable output : consult us!)
- OPTION : display/programming pocket

597-06



Magnetic transmitter RTM

- Potentiometric or 2wired 4-20 mA output
- Direct mounting on tank
- Universal, adaptable on our level products
- MNR, GNR, SFA, SFA/E, MAGTOP

586-01



No-settings level sensors

Hydrostatic level probe NIVAPRESS

For level measurement of clear liquids stored in tanks, deep wells or piezometers

- Measuring range : 1..500 m water column
- Stainless steel probe, diaphragm in Hastelloy
- Polyurethane or PTFE-coated cable
- Certification EX or DNV

590-03



Hydrostatic level probe BAMONIV TPS

Level measurement for aggressive liquids

- Diaphragm in ceramic (99.9 %)
- Accuracy 0.35 % (0.25 % on request)
- Range : 0..50 m water column
- Probe in PVDF or PP

591-03



Separators alarm units

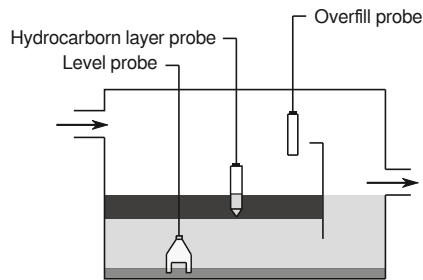
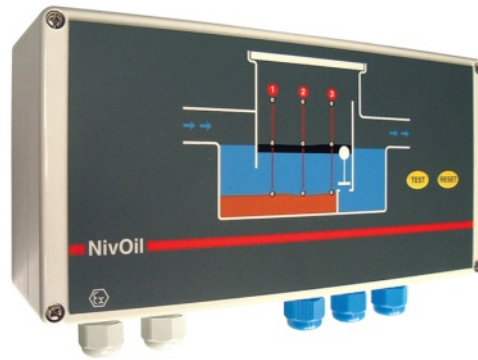
Alarm units for hydrocarbons separators

NIVOIL®

3 probe inputs with automatic recognition

- Hydrocarbon layer thickness probe
- Overflow level probe
- Sludge level probe

- EX certified
- Supply voltage 230 V AC / 50 Hz, or 10...27 V DC
- 3 relay outputs
- Audible alarm (can be switched off)
- System diagram on front panel
- IP 65 wall-mounted enclosure



531-01

RAC 531

1 probe unit for hydrocarbon layer detection

- EX certified
- Supply voltage 230 V AC / 50-60 Hz
- Push-button for acknowledgement and test
- 1 probe input
- 1 relay output
- Audible alarm
- Illuminated alarm
- IP 65 wall-mounted



BAMOBX SOLAR (BBS)

Stand-alone system with 3 probe inputs and automatic recognition

Using solar energy, the BBS system provides autonomous power for a NIVOIL® 10...27 V DC hydrocarbon separator alarm when no power source is available on site.

- Powered by solar panel and battery
- Pole-mounted
- Battery overload/discharge protection
- Independent support for solar panel

OPTIONS

- Flashing light (*information report / short distance*)
- GSM (*information report / long distance*)

531-03



531-04



OPTION
Floating system

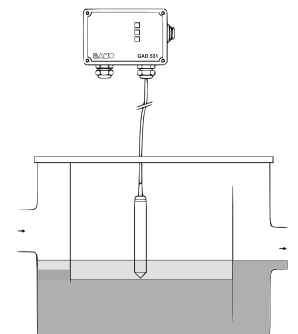


Alarm unit for grease separators

GAD 531

The GAD 531 is dedicated to monitoring grease separators complying with standard EN 1825; it triggers an alarm when the separator needs to be emptied.

- Supply voltage 230 V AC / 50-60 Hz
- Push-button for acknowledgement and test
- 1 probe input
- 1 relay output
- Audible alarm
- Illuminated alarm
- IP 65 wall-mounted enclosure

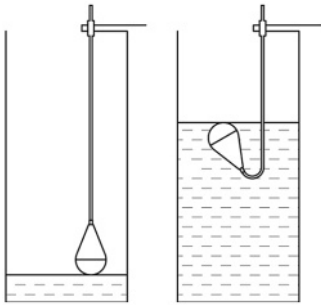


531-05

NIVOSTOP®: Float level switches

Float switches - Built-in counterweight

For liquids density > 1



Wastewater resistant - strong build

Applications : Pumping stations and wastewater treatment plants, rainwater collection systems...

Body: Polypropylene
Cable: Neoprene, 3x1 mm² (Ø 8.8 mm)
Temperature: -15...+60 °C
Triple-jacket protection (robust)



Strong build: 3 shells!

522-05

Hazardous areas (Ex): ATEX certified zone 0

Applications : waste waters in Ex areas

Body: Polypropylene
Cable: PVC/TPR
Temperature: +80 °C



521-03

CHEMICAL version: for aggressive liquids

Body: Polypropylene
Cable: FEP / FPM seals
Temperature: +100 °C



520-04



DRINK WATER: Attestation of Sanitary Compliance (ACS)

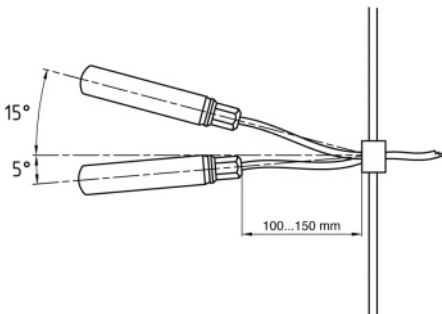
Applications : Food, drinking water, drilling water

Body: Polypropylene
Cable: ACS
Temperature: +40 °C



523-02

Float switches



NIVOSTOP® SS2

Body : Polypropylene

Cigar-shaped (SS2/W) : with its small size, this small model is suitable for all non-charged fluids (density ≥ 1). Standard cable in highly flexible PVC

Pear-shaped (SS2/KW) : Its larger displaced volume l'imposes it on pasty, viscous or highly charged liquids (sludge), of density ≥ 1. Standard PVC cable with polyethylene (PE) coating

Cigar-shaped, oil version (SS2/WH) : this model is suitable for liquids density ≥ 0,9. Standard PVC cable with polyethylene (PE) coating

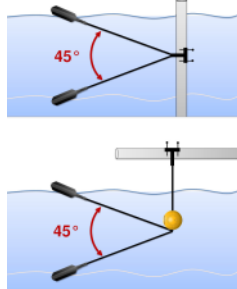
520-01

Switch regulator

Float level switch NIVOSTOP® HP4

For waste and clean water
Robust (double chamber) and compact
Ø7.5mm neoprene cable
Installation with or without ballast

522-15

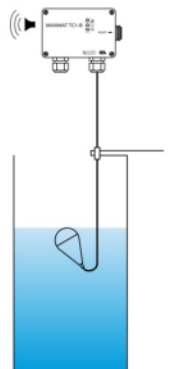


1 Channel alarm unit MAXIMAT TC1-B

Level alarm for non-combustible and hazardous liquid storage containers, retention basins, tanks and collection areas...

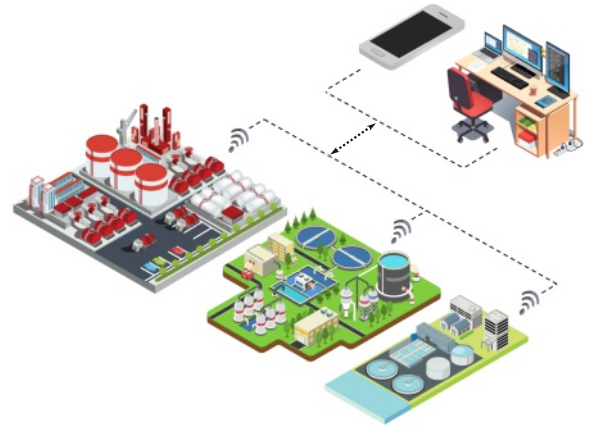
Integrated sensor test function
Audible and visual alarm > 75 dB
Potential-free contact relay output

555-10





Stay connected with your BAMO sensors



RECEIVE View & manage

Visualization and Recording Platform
Accessible via any web browser
Data display and analysis
Create e-mail and/or SMS alerts



SEND Signal transmission

2/3/4G modem + WiFi
SIM card at user's choice
6x On/Off inputs
4x Analog inputs
1x RS232 input for Modbus

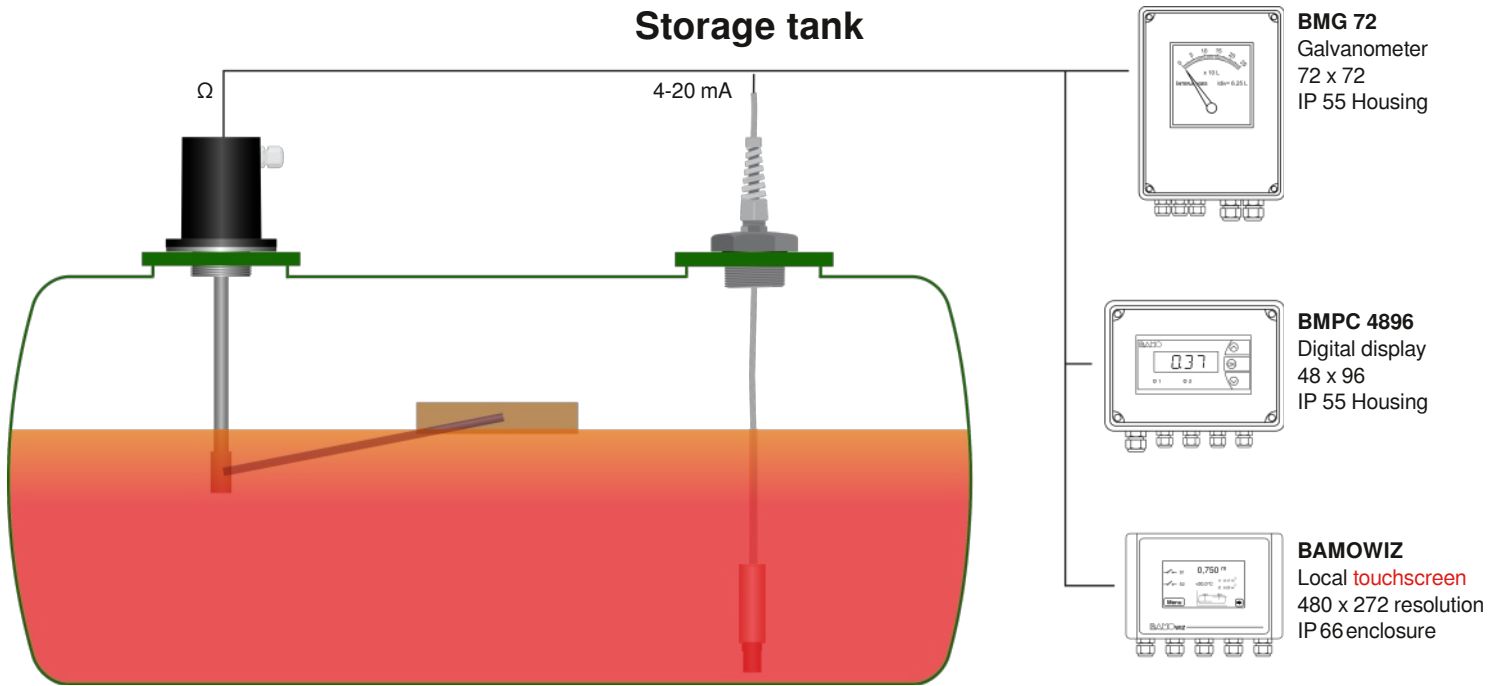


DETECT / MEASURE ON-OFF / 4...20mA / Modbus sensors

Level,
Flow,
Pressure,
Temperature,
Leakage detection,
etc

Tell us about your specific requirements and we will adapt to your situation

Fuel level gauges



Electric level gauge JE 100

Suitable for outdoor tanks.

Height : From 1250 to 3000 mm
Transmission: Angle drive
Mounting: On 2" sleeve
Protection : IP 67 enclosure
Materials : Steel, Nylon, PVC

Outputs:
dry level contact(s)
continuous output (Ω)

579-03



Analog level probe INTERNIV 590

The INTERNIV 590 level gauge is used for continuous level measurement in ventilated tanks with a filling height from 0 to 3 meters.

Measurement range: 0 to 3 metres
4...20 mA output (8...32 V DC supply)
Compact, robust sensor (stainless steel / PVC)

590-06



IP65 junction box with atmospheric venting



Universal panel mounting indicator ITU

Programmable on front
Inputs: mA, V, Pt 100, Ni 100, TC, Potentiometer
Multi-voltage power supply
Sensor energization: 15...25 V DC / 0...20 mA
Outputs: 2x relays or 4x relays + 1x 0/4-20 mA output

Option: wall-mounted cabinet

222-03



Galvanometric indicator BMG 72

Wall-mounted housing IP 55
Galvanometer 72 x 72
1 analog input
1 analog output 0/4-20 mA
2 changeover relay outputs

206-01



Digital and graphical display BAMOWIZ

Graphic color touchscreen
2x 4-20 mA inputs
2-wire sensor power supply
1x Frequency input
1x 4-20 mA output
With or without linearization
Up to 8 alarm thresholds operating 3 relays
1x RS485 ModBus serial link

217-01



Fuel level gauges

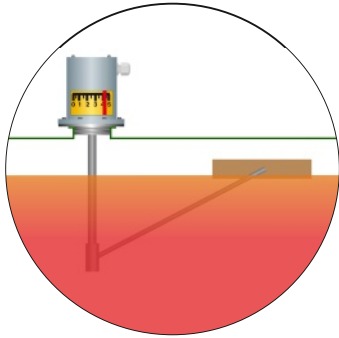
Day tank (feeder) with or without retention receiver

Level controllers and indicators CF3/CF4 SERIES

Particularly suitable for meeting the requirements and conditions of use of the fuel supply capacities of generators **placed indoors**.

Height: 250 to 3000 mm
Transmission: Angle drive
Mounting : On 2" sleeve
Protection : IP 54 enclosure
Materials : Steel, Nylon, PVC

Possible functions:
Display on dial,
Dry contacts,
Dump on/off contact,
Continuous output (Ω)



579-02



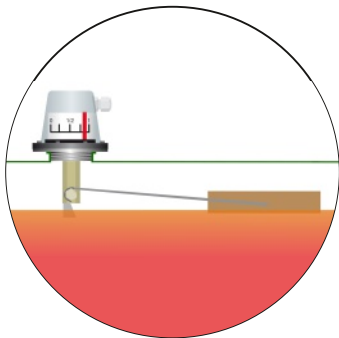
Tank chassis

Level controllers and indicators CF80 SERIES

The CF80 series contactors are designed for small tanks (automatic refilling of indoor generator tanks).

Height: 150 to 650 mm
Transmission: Angle drive
Mounting : On 2" sleeve
Protection : IP 54 enclosure
Materials : Steel, Nylon, PVC

Possible functions:
Display on dial,
Dry contacts,
Dump on/off contact,
Continuous output (Ω)



579-04



Retention receiver

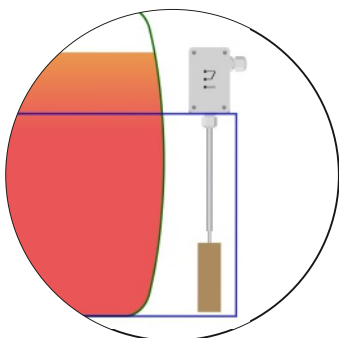
The retention receiver is only intended to prevent leakage from the tank.
It is recommended to install a protection system.

Float switch for retention receiver CF30 SERIES

The "CF30 Series" contactors are designed to detect leaks in the retention tank.

CF30 : vertical float, 1 contact
CF31 : horizontal float, 1 contact

Height: 150 to 2000 mm
Mounting: On galvanized steel support bracket
Protection: IP 54 enclosure
Materials: Stainless steel, PVC



579-10



Temperature

Pt 100Ω stainless steel sensors TS 11

316L stainless steel plunger and fitting
Range : -50 ... +250 °C
Output: 3-wire Pt100 or 2-wire 4-20 mA
Customizable on request

611-01



Pt 100Ω All-plastic sensors TS 13

For use in corrosive liquids or environments

Materials: PVC, PP, PVDF
Range : -20 ... +140 °C
Output: 3-wire Pt100 or 2-wire 4-20 mA
Customizable on request

613-01



Industrial bi-metal thermometer T 502

Dial : Ø 100 mm, Ø 150 mm
Adjustable connection
Précision : Class 1 (selon EN 13190)
Measuring ranges : - 20...+ 600 °C
Case & ring : AISI 304 SS
(in option : all AISI 316 SS)
Stem & process connection : AISI 316 SS
Protection rating : IP 65 EN 60 529 / IEC
Sensing element : coiled bimetal strip

696-18



Thermowells, welded body TWS

Protection of the sensitive element against corrosive effects and maintenance/calibration of the instrument without process interruption.

Connection according to operating conditions (pressure, T°, flow, vibration, corrosion)

Immersion tube length 50 to 500 mm
Fittings: Threaded BSP / NPT
or Flanged (DN 32 / 40 / 50 PN 10/16/20)

Materials: AISI 316L, PVC, PPH, PVDF

635-01



Displays & signal converters

Universal converter CUB-233

1 universal input: mA, V, T°, Ω
Sensor power supply
2 analog outputs
2 relay outputs

233-02



Universal displayer BAMOWIZ

Graphic color touch screen
2-wire sensors power supply
2x 4-20 mA inputs
1x 4-20 mA analog output (customizable linearization)
8 configurable thresholds assignable to 3 relays

217-01



Universal displayer ITU 402 / 412

For front panel mounting
Inputs: mA, V, Pt 100, Ni 100, TC, Potentiometer
Multi-voltage power supply
Sensor power supply 15...25 V DC / 0...20 mA
48 x 96 mm case, IP 65 front panel
Outputs: 2x relays, or 2x relays + 1x 0/4-20 mA output

222-03



Ambient temperature sensor TS 18

Measurement range - 40...+75 °C
PVC housing for wall mounting
or 4/20 mA

618-01



Flowrate

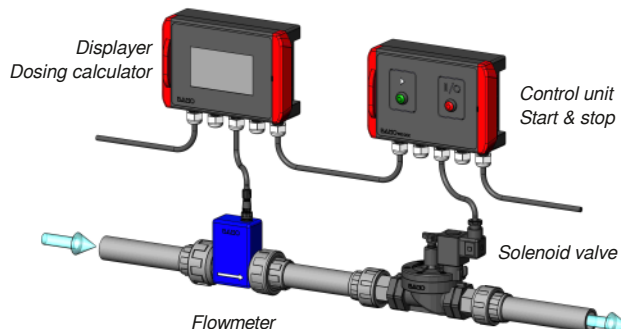
Indicators/displayer, dosing, contacts



Batch controller, flowmeter,
counter and totalizer
BAMOWIZ DOZ

Batching control panel
Counter and totalizer
For pulse flow sensors
Frequencies: 0.04 Hz to 10 kHz
Graphic color touch screen
Timer & volume alarm

217-05



Turbine flow sensor
FFG

For low flow rates
Body: PVDF, Polysulfon, Arnite
Range 6 to 720 l/h
Accuracy $\pm 1\%$
High-resolution frequency output
Power supply 4.5 to 24 Vdc
Thread connection 1/4" BSPM

784-01



Paddlewheel flow sensor
BAMOFLU

Power supply: 5...24 V DC
Output: NPN / PNP pulses
Mounting: Support collar, or weld-on boss
Pipe size : DN 15 ... DN 600
Measuring range: 0.8...10 m /second
Material: PVC, PPH, PVDF, Stainless steel

780-01



Compact flowmeters with no moving parts

Vortex effect type flowmeter
VORTEX

Flow measurement on sanitary hot water, drinking water, demineralized water

Range : 0,9 ... 150 l/min
Diameters : DN 8 ... DN 25
Output : 4-20 mA or frequency

777-01



Drinking water certification:
KTW, W270, WRAS

Electromagnetic flowmeter
BAMOMATIC

Measuring range: 0.1 ... 250 l/min
Power supply 24 V DC
Output: Push-pull frequency & 4-20 mA
Tube and electrode: stainless steel 316 L, Body: PVDF
Connections: 1/2" - 3/4" - 1" - 1 1/4"

775-01



Ultrasonic flowmeter
BAMOFLONIC

For conductive and non-conductive fluids, in different industrial applications

For highly alkaline solutions, concentrated acids or leachates

- DN 10 to DN 50
- Measuring range 0.3 to 900 l/min
- 1 analog output 0/4-20 mA
- 1 configurable digital output

Body: PSU, PEHD or PFA
Protection: IP65 or 67

776-01



Flowrate

Flow indicators

Glass tube indicators RA / FA

For liquids and gases
Direct reading on glass tube
Measuring range: 0.5 l/h to 160 m³/h
Materials: Glass, Steel, Stainless steel, PVC
Options : ATEX versions, contacts,
4-20 mA or 0-10 V output

727-xx



Option: 4-20 mA transmission, adjustable contacts, ATEX version

Plastic flow indicators IDP & PDP

Measuring range :
2.5 to 60,000 l/h in 20 ranges

Body :
PVC or Polysulfone

Float: PVDF
(magnetized in option)

Connections :
PVC
PPH
PVDF
Stainless steel

Ranges :
Water
HCl
NaOH
Air

730-05

731-03



Accessory : Bistable alarm contact

Flow controller

Paddle-wheel flow controller CDSP

Brass or 316 Ti stainless steel
For DN 25 to DN 200 pipes
Adjustable contact
Screw-in fitting
30 bar / 120 °C max.

712-01



Metallic piston-type flow controller BV-BR, BMV, STAN, DUM, DUG

For water, air and oil - Brass or 316 stainless steel version
Flow indication and contact by ludion (BV-BR)
Indirect lateral transmission on galvanometer (BMV, DUM)
Connections depending on model: 1/4" to 1" 1/2 BSPF
Viscosity-independent - up to 500 Cps (BMV, DUM, DUG)



720-01



726-02



721-01

Flowmeters

WOLTMANN meter for cold or hot water OMEGA

For high flow rates in hot or cold water
30 to 3000 m³/h (11 ranges)
Pulse transmitter, Totalizer
CEE approval 75/33, Class B

787-10



Composite meter Type 620

DN 15 or DN 20 connection
Highly resistant to aggressive water
ACS approved

786-02



PTFE-coated meter M41 series

Fitting DN 15 or DN 50
For clear fluids
Simple metering and/or pulse emission
30 to 30,000 l/h

786-04



Kirchner und Tochter (K&T) is a flowmeter manufacturer since 1951, located in Duisburg, Germany, which BAMO was proud to welcome to its group in 2020.

K&T stands for 70 years of experience and German quality monitored and certified by the DVGW, in compliance with DIN EN ISO 9001:2015 and the Pressure Equipment Directive (PED) 2014/68/EU.



Kirchner
Durchflussmesstechnik



Flap flowmeters

KLA / KFS 713-*

Viscosity-independent

Spring loaded flaps with direct reading or contact / 4...20 mA reporting
Good for any kind of liquids
Material : steel, stainless steel, PVC, PP, PVDF
Vertical or horizontal installation
Option 4...20 mA, contacts...
From ND15 to ND600 *

Bypass flowmeter

DST 765-05

Cost effective solution for large nominal width and flowrates
For any type of clear liquids or gases
Material : aluminium, PVC, PP, PVDF
Option 4...20 mA, contacts...
From ND32 to ND400 *

Variable area flowmeter

RA / FA 727-*

Plastic / stainless steel flow indicators with glass measuring tube
For any type of clear liquids or gases
Option 4...20 mA, contacts...
From ND10 to ND200 or 1/4" to 3" *

Differential pressure flowmeters

DDM-DDW/EM 763-*

For gas or liquids
Material : steel, stainless steel, PVC, PP, PVDF
Vertical or horizontal installation
Flow indication by pointer dial, digital display, output 4...20mA., contacts...
From ND50 to ND200 or 1/4" to 2 3/4" *

BUT ALSO...

Variable area flowmeters

SGM 741-*

Indication via magnetic coupling
All-metal or all-plastic unit for high resistance to pressure / temperature or high chemical resistance
Option 4...20 mA, contacts...
From ND10 to ND100 or 1/2" to 1" *



SMB

For sprinkler systems approved by VdS



SGK

Small flowmeters for liquids & gas



SKM

Flow controllers Compact



STAN-K

Flow controllers High pressure

* Depending on material variant and fitting type

Pressure

Comprehensive range for industry

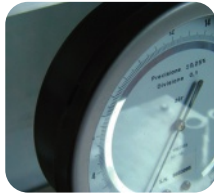
- Water
- Oil & Gas
- Food & Beverage
- Energy



Electronic pressure transducers, differential pressure gauges, vacuum gauges, pressure switches, pressure switches, whether or not mounted on separators.



Calibration & Filling



Pressure balance to validate our assemblies and meet certificates requirements.



Bourdon tube pressure gauge P101/P103

Industry series
All stainless steel / EN 837-1
Case Ø : 63, 100 or 150
Measuring range: -1...0 to 1600 bar
Option : Glycerine filling

812-50 812-54



Pressure gauge with bourdon tube and glycerine bath 63P60.5

Economical standard series
With glycerine filling
Ø 63 mm case / Accuracy class 1.6
Measuring range: 0...25 bar

812-11

Plastic separator

SPM 903

Protection of pressure transducers against very aggressive or ultrapure media/fluids.

Bonnet: PP reinforced with glass fiber
Body: PVC-U, PP, or PVDF
Diaphragm: PTFE
Max. pressure: 10 bar @ 20°C



903-02



Contact pressure gauge P501

For alarm and security
All stainless steel / EN 837-1
1 or 2 contacts for Ø 100 manometers
Measuring range: 0...25 bar

812-69

All stainless steel separators



Dismountable (screw-on)

812-39



Welded monobloc

812-40



Food & drugs

812-34



Flanged separators

812-38



High-pressure separators

812-42

Pressure sensor TP 805

Output signal: 4-20 mA
Accuracy ±0.5% full scale (or ±0.2%)
Relative pressure from 0...2.5 to 25 bar
Fittings: 1/2 & 1/4" BSP thread (specific on request)
Option: ATEX, SIL 1, Marine



805-04 805-10

Contact pressure switch XML

Operates in any position
Regulation between two thresholds
1 or 2 switching outputs
Measuring range: 0.4...4 bar or 0.6...10 bar
Fittings: 1/4" BSP female threaded



892-03

Plastic Valves

Valves and pressure reducing valves

Relief valves SDD 911

In-line or bypass mounting, any position, depending on the required function.

Setting range: 0.5...10 bar
Pressure class: PN 10 (at 20 °C)
Temperature: +10...+50 / 70 °C (PVC / PP)
Dimensions : DN 10 ... DN 25

Body : PPG
Diaphragm: PTFE-coated EPDM
Seal: EPDM or FPM
Hysteresis: approx. 0,3 bar

Fittings: Flanges, thread DIN 8068, glue union (PVC), polyfusion union (PPH).

911-03



Relief valves SDD 910

Body: PPG or PVDF
Fittings: Unions
Dimensions: DN 10 ... DN 15
Pressure class: PN 10

910-01



Relief valves V186 & V86 & DHV 712 R

Body: PVC, PP, or PVDF
Diaphragm : PTFE-coated EPDM

Fittings:
- Male spigot
- Unions
- Flanges

Dimensions: DN 10 ... DN 100
Pressure class:
PN 10 (DN 10 ... 50)
PN 6 (DN 65 & DN 80)
PN 4 (DN 100)

911-04



Pressure reducers V182 & V82

Body: PVC, PP, or PVDF
Diaphragm: PTFE-coated EPDM

Fittings:
- Male spigot
- Unions
- Flanges

Dimensions: DN 10 ... DN 100
Pressure class:
PN 10 (DN 10 ... 50)
PN 6 (DN 65 & DN 80)
PN 4 (DN 100)

906-03



Filters, valves and tank accessories

Ventilation valves BV 91 & BV 95

To control the air inlet or outlet of a system

Body : PVC - PPH - PVDF
Seals : FPM
Ball : PP or PVDF (depending on body)
Fittings : DN 10 ... DN 50

949-02



Check valves CSI, CBT, SV91 & SV95

Angle seat, flap and cone valves to control the direction of travel of a fluid

Body : PVC, PPH, PVDF
Seals : EPDM, FPM

951-** 950-03 949-01



In-line strainer FTL S4

Radial assembly and disassembly
Transparent housing
Construction: PVC, PPH and EPDM seal
Filter pitch: 1.8 x 3.4 mm

955-02



Plastic Valves

Motorized valves

2 or 3-way pneumatic valves VP2V & VP3V, S4

NAMUR VDI/VDE 3845 & ISO 5211
T pattern
Easy radial mounting / dismounting

Body: PVC, PPH, PVDF
Fittings:
DN 10 ... DN 100 (2-way)
DN 10 ... DN 50 (3-way)

913-..



2 or 3-way electric valves VE2V & VE3V, S4

Straight pattern
Easy radial mounting / dismounting

Body: PVC, PPH, PVDF
Fittings:
DN 10 ... DN 100 (2-way)
DN 10 ... DN 50 (3-way)

914-..



Electric butterfly valves VEP

Radial assembly and disassembly
between flanges

Body : PP-GF, PVC
Butterfly : PVC, PP ou PVDF
Fittings : DN 50 ... DN 200

914-..



Solenoid valves

Fluid-assisted solenoid valve EV 160

Operating mode: Normally closed
Body: PVC, PP, PTFE
Seals: PTFE / EPDM, FPM
Fittings (female): DN 15 ... DN 50
Supply: 230 V / 50 Hz

920-01



Direct-acting solenoid valves EV 150

Operating mode: Normally closed
Body: PVC, PTFE
Membrane & seat: PTFE / EPDM, FPM
Fittings: DN 10 ... DN 20 (female, to glue)
or female threaded 3/8", 1/2"
Supply: 230 V / 50 Hz

921-01



Fluid-assisted solenoid valve EV 920 NF

Operating mode : Normally closed
Body : PPH, PTFE
Seals : PTFE / EPDM, FPM
Fittings : DN 10 ... DN 50
Supply: 24 V AC, 230 V AC / 50 Hz, 24 V DC

920-02

920-03



Manual valves

Butterfly valves VMP FE and K4

Butterfly: PVC, PPH, PVDF
Fittings: DN40 ... D N300
Secure, padlockable handles
Multiple adjustment positions
Radial assembly and disassembly between flanges

945-04 945-05



Angle-seat valves VDDV & SV15-50

Body: PVC, PPH, PVDF
Fittings: male DN 10 ... DN 50

930-01 930-02



2 or 3-way valves VM2V & VM3V

Body : PVC, PPH, PVDF
Fittings : DN 10 ... DN 80 (2-way)
DN 10 ... DN 50 (3-way)

934-02

935-01



Diaphragm valves VMM T4

Secure, padlockable handwheel
Body : PVC, PPH, PVDF
Diaphragm : EPDM or PTFE coated
Fittings : male DN 15 ... DN 65

940-02



Metal valves

2 or 3-way pneumatic valves VP 2V & 3V Stainless steel

NAMUR VDI/VDE 3845 & ISO 5211

Body: Stainless steel
Fitting:
1/4" ... 4" (2-way)
1/4" ... 2" (3-way)

1013-01



2 or 3-way electric valves VE 2V & 3V Stainless steel

Body: Stainless steel
Fitting:
1/4" ... 4" (2-way)
1/4" ... 2" (3-way)

1014-02



Pneumatic butterfly valves VPP Stainless steel

NAMUR VDI/VDE 3845 & ISO 5211

Body: Epoxy-painted cast iron
Butterfly: AISI 316
Fitting: DN 50 ... DN 300

1013-03



Electric butterfly valves VEP Stainless steel

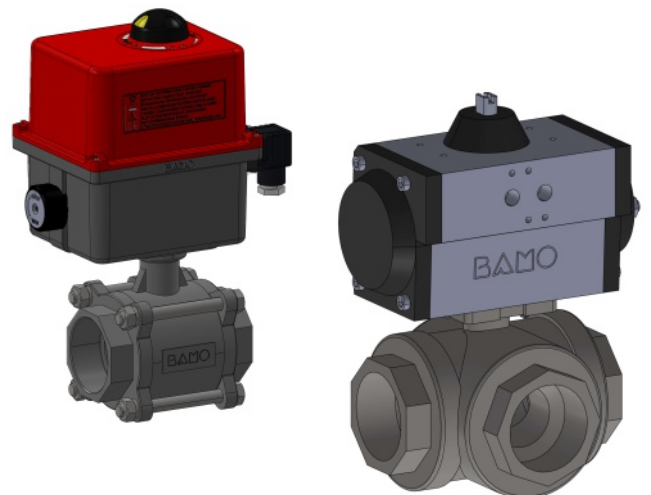
Body: Epoxy-painted cast iron
Butterfly: AISI 316
Fitting: DN 50 ... DN 300

1014-03



3D modelling and customized panels

Request 3D modeling of our products to help you manage your assemblies and visualize the dimensions of the final result.



Development of **customized solutions**:

Manufacture of complete measuring panels according to manufacturing drawings.

Design, assembly and testing take place in our workshops in France.



BAMO Mesures

The BAMO Group, based in France since 1978, designs, manufactures and markets most of its product range. Our workshops ensure the design and production of our electronic and mechanical devices, as well as specific equipment developed to your specifications.



BAMO Mesures SAS

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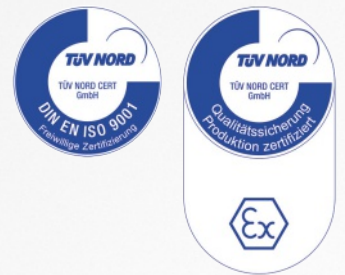
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export@bamo.fr

Certified company



BAMO IER GmbH

German subsidiary



Other subsidiaries

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