BAMO

PRODUCTS GUIDE

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Table of contents

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

pH

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

107-01

Turnkey wall-mounted assembly

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
1 to 3 electrodes pH/ORP

9200 (PVC/PPH)   **9240** (PVC)   **9500** (AISI316)

140-01   140-02   142-01

Pipe insertion measurement support

9400 (PPH/PVDF)
In-flow insertion & removal
Fitting thread 3/4" BSP

141-01

9410 (AISI316)
Fitting weld-on boss

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

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

193-xx

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

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.

BAMO

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 kΩ .cm to 0 - 200 MΩ .cm
    0 - 2 µS /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 µS /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)

364-01   *364-05*

TCS 3020   **TCL S50**

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
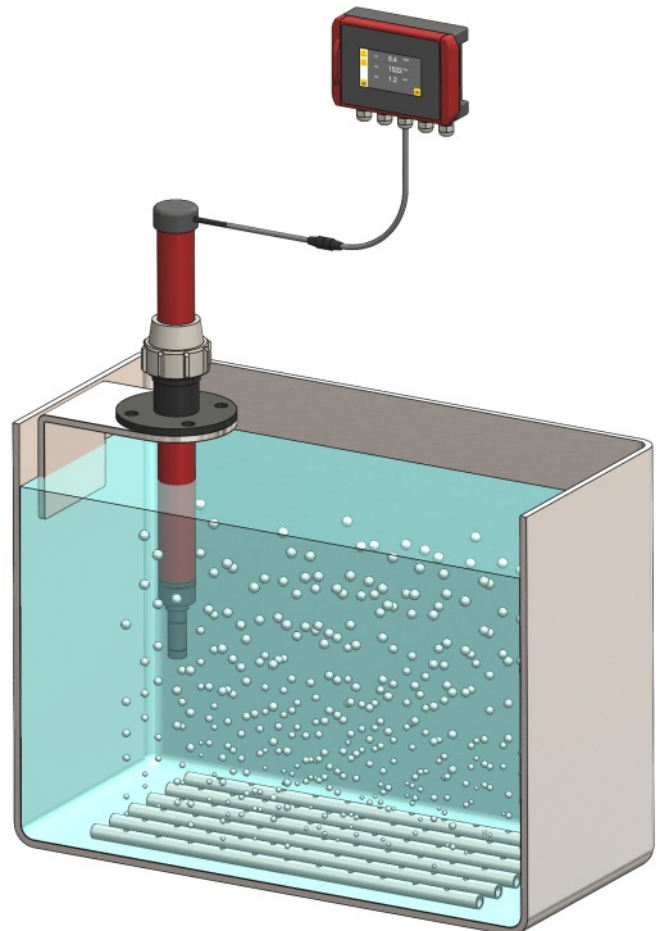Stainless steel, titanium or PVC/POM version

453-01

Dissolved oxygen measurement in aeration tank

Dissolved oxygen measurement in seawater

BAMO

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...1000 FTU
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
  (sludge densities approx. 50 to 250g/l)
• 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

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

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

To associate with BamoPHAR 759

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
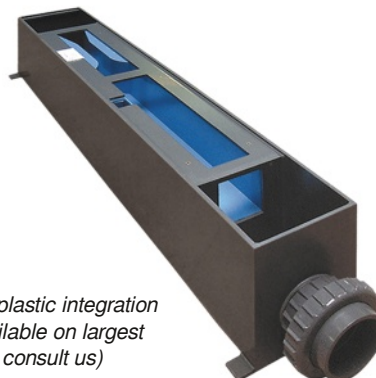
755-02

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)

BAMO

Auto control: samplers

Complete industrial system

Fully modular

Low maintenance costs!

Automatic sampling station
AQUACELL

Wastewater sampler
Creation of representative samples

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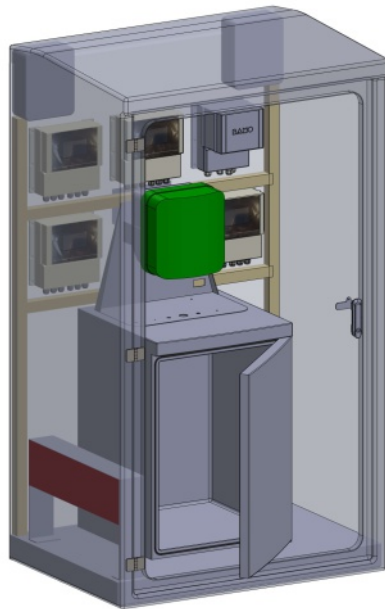Programmable time and flow rate
Transfer speed greater than 0.5 m/s

Instrumentation

Flow measurement, pH, recording...

Polyester cabin:

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

Equipped refrigerator

- Support plate for AQUACELL
- Removable sampler

Portable sampler

For itinerant controls
AQUACELL P2

*Lightweight, compact and robust
Battery or mains-powered*

476-02

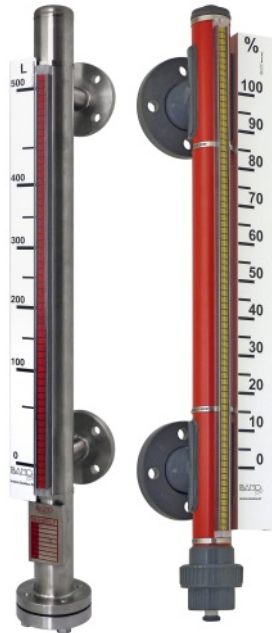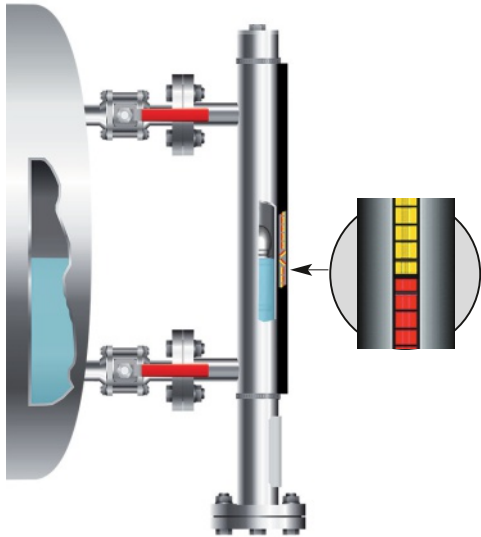1 to 24 flacons with automatic bottlers

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

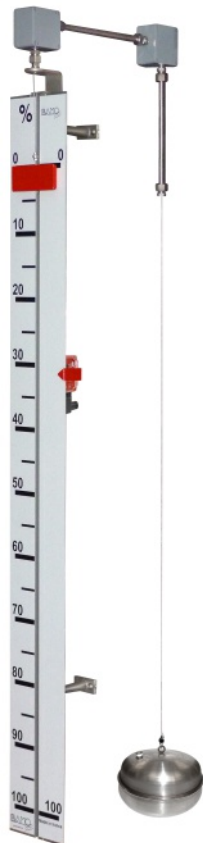- Graduated ruler with customized units *(height, %, volume, weight...)*

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
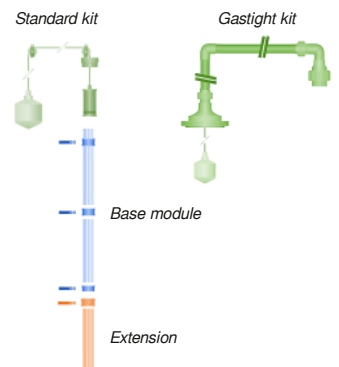## SFA

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

Standard kit   *Gastight kit*

Base module

Extension

BAMO

Gauges and level control

Limnimetric 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)
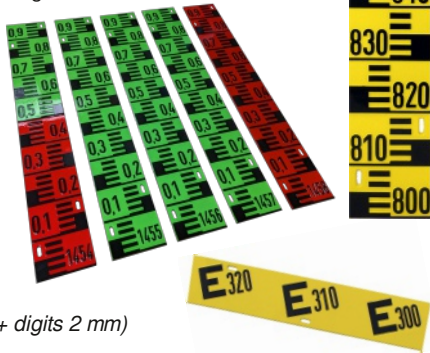
Tank top level indicator
Série FS4

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

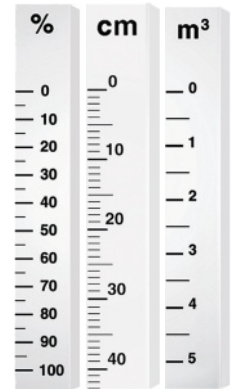*585-02* *585-01*

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
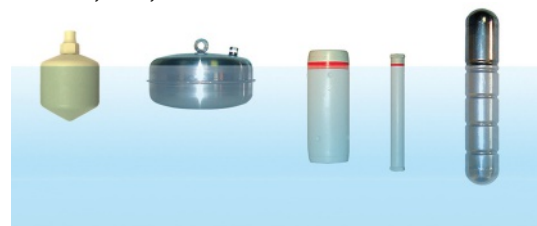
Spare parts or complete sets

Counter weights

583-03

Pulleys

Stainless steel, PVC, PPH floats

BAMO

11

Resistive level probe
For conductive liquids

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

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 & vibrating fork level switch

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
Fxed or adjustable hysteresis
Epoxy-protected aluminum housing
Contact Micro-switch NO / NC

Option Ex agreement

524-01
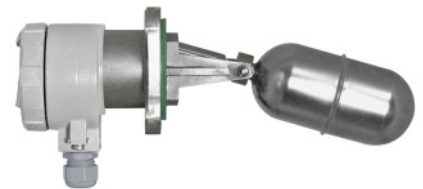
Vibrating fork level switch
NIVASWITCH

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

BAMO

Leakage & Overfill level detection

MAXIMAT sensors for safety & environmental protection
Capacitive, all plastic sensors for agressive conductive liquids

Detection in pipe double-wall
MAXIMAT LW-CX SDR

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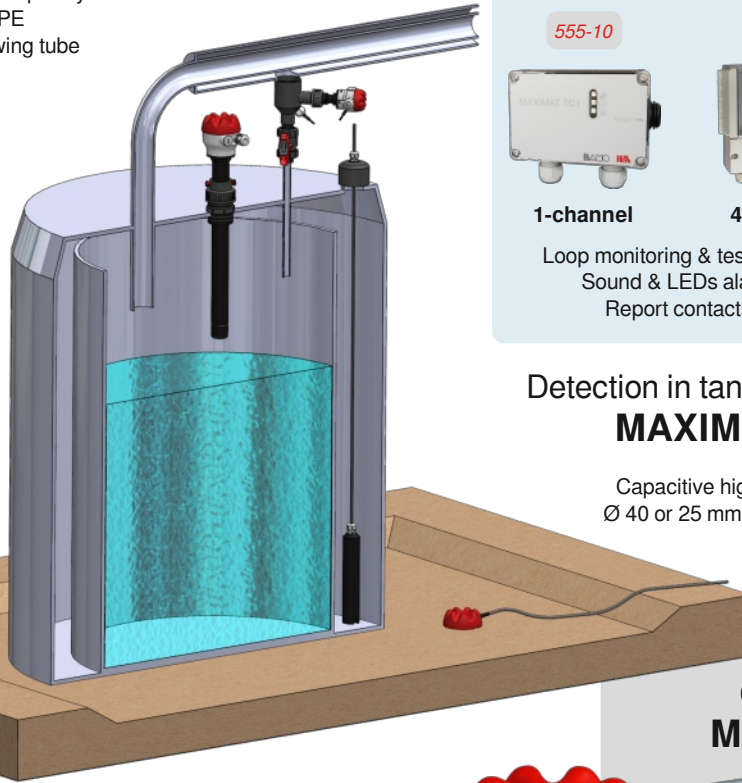Material PVC or PE
Transparent viewing tube

556-04

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

Fail-safe operation
in combination with our alarm units:

TC1	TC4	SHR CS
555-10	555-07	555-06
1-channel	4-channel	DIN Rail
Loop monitoring & test button		Loop monitoring
Sound & LEDs alarm		LEDs alarm
Report contacts		Report contacts

Detection in tank double-wall
MAXIMAT LW-CX

Capacitive high-frequency sensor
Ø 40 or 25 mm with fixation system
Material PVC or PE

556-07

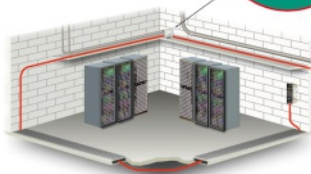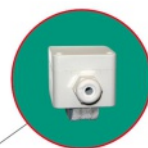### Ground leak detection
MAXIMAT LWC BX

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

555-08

Certficates for MAXIMAT ® series:
WHG / Germany
KVU / Switzerland
GOST / Russian federation
Vlarem II / Belgium

Area protection against leakage or flooding
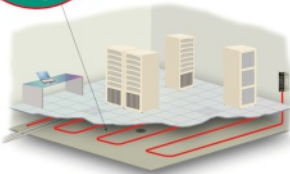
Leak detection   544-03
LISA *(detection at first drop)*

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

Leak detection & location
BAMOLEAK

Length up to 3000 metres
12 customizable detection area
Automatic sensor recognition
Incident recording
Outputs: 4...20 mA, MODBUS RTU, relays

544-50

BAMOLEAK CD
Cable detection ideal for long lengths
sturdy,easy to install,
can pass through sheaths or random paths

BAMO

Level transmitters

Display + programmable contacts
BAMOWIZ

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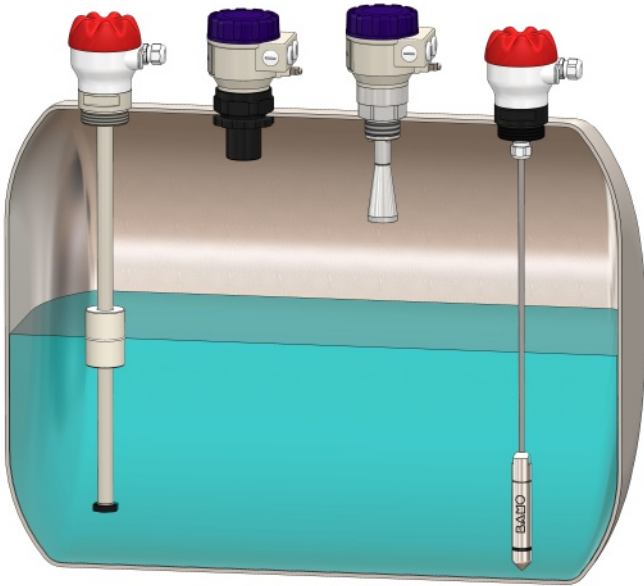2x 4-20 mA inputs
1x 4-20 mA programmable output
1x Frequency input
3x potential free NO contacts
8x programmable thresholds
1x RS485 Modbus serial connection

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

No-settings level sensors

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

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

Hydrocarborn layer probe
Overfill probe
Level probe
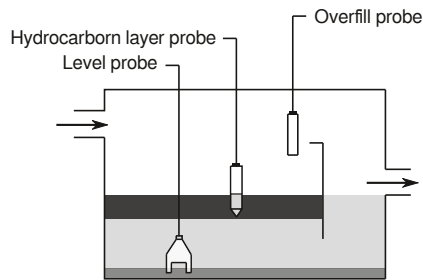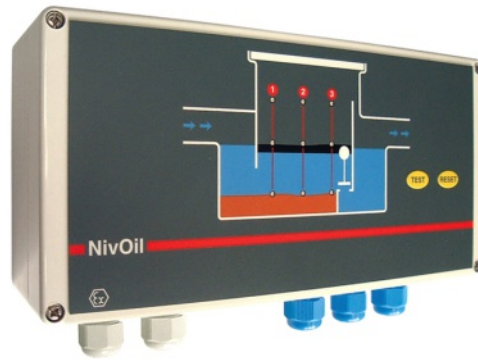
RAC 531

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

531-04

OPTION
Floating system

BAMOBOX 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
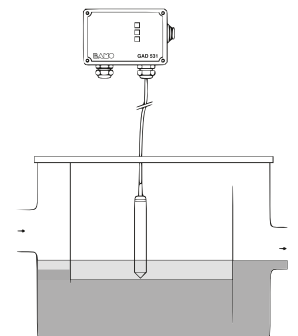
Alarm unit for grease separators

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
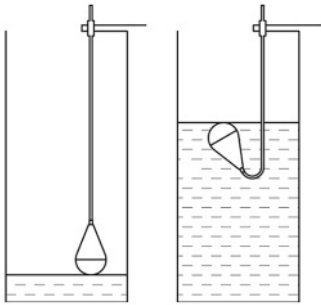- Illuminated alarm
- IP 65 wall-mounted enclosure

531-05

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)

522-05

Strong build: 3 shells!

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 agressive liquids

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

520-04

DRINK WATER: Attestation of Sanitary Compliance (ACS)

Attestation de conformité sanitaire ACS

Applications : Food, drinking water, drilling water

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

523-02

Float switches
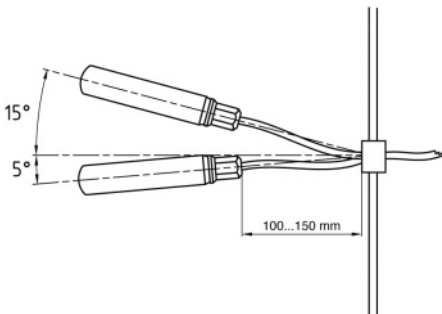
NIVOSTOP® SS2

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 TPK

Pear-shaped (SS2/KW) : Its larger displaced volume allows it to handle pasty, viscous or highly charged liquids (sludge), of density≥1. Standard cable in TPK

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

520-01

15°
5°
100...150 mm

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

45°

45°
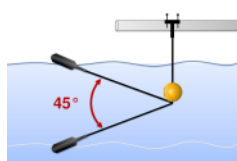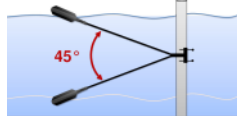
1 Channel alarm unit MAXIMAT TC1-B

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

MAXIMAT TC1
BAMO IER

BAMO

BAMO CLOUD
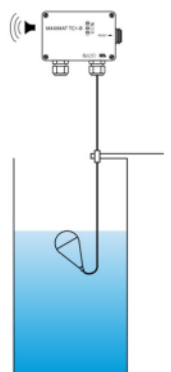
Stay connected with your BAMO sensors

3
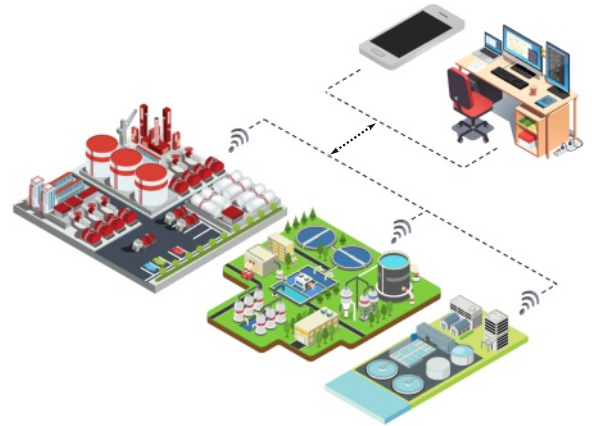
RECEIVE
View & manage

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

201-20

2

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

248-07

1

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

Storage tank

Ω

4-20 mA

BMG 72
Galvanometer
72 x 72
IP 55 Housing

BMPC 4896
Digital display
48 x 96
IP 55 Housing

BAMOWIZ
Local touchscreen
480 x 272 resolution
IP 66 enclosure
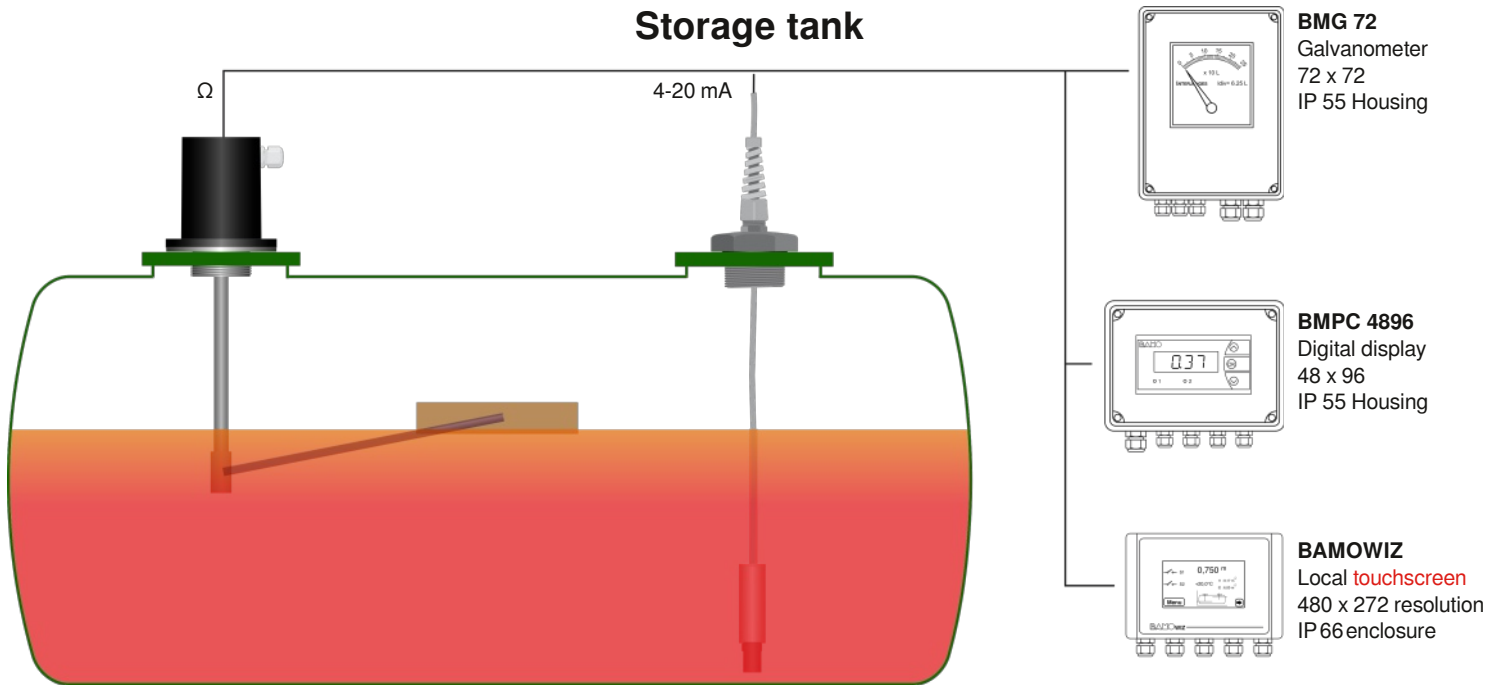
Electric level gauge
JE 100

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)
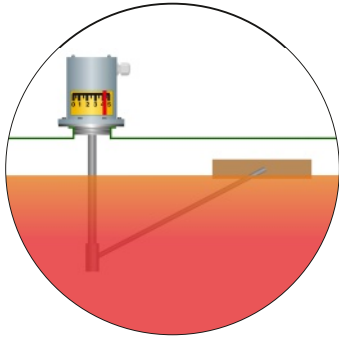
579-02

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)
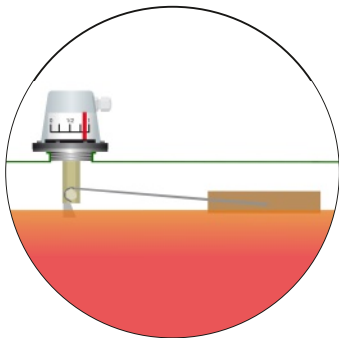
579-04

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
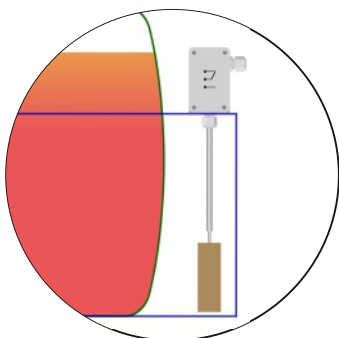
579-10

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 effets 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

Displayers & 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

BAMO

Flowrate

Indicators/displayer, dosing, contacts

Batch controller, flowmeter, 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

Displayer
Dosing calculator

Control unit
Start & stop

Solenoid valve

Flowmeter

Turbine / paddlewheel flow sensors
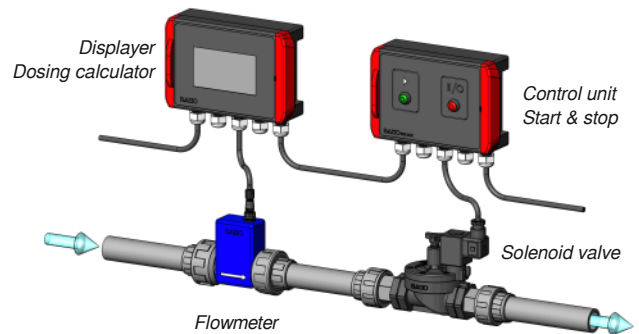
Turbine flow sensor
FFG

For low flow ratesBody: PVDF,
Polysulfon, Arnite
Range 6 to 720 l/h
Accuracy ±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/mn
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 3 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

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

BAMO

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 ¼" 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 ¼" to 2"¾ *

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 ½" to 1" *

* Depending on material variant and fitting type

BUT ALSO...

NEW

SMB
For sprinkler systems approved by VdS

SGK
Small flowmeters for liquids & gas

SKM
Flow controllers Compact

STAN-K
Flow controllers **High pressure**

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.

Plastic separator

SPM 903

Protection of pressure transducers against very aggressive or ultrapure mediafluids.

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

903-02

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

Contact pressure gauge
P501

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

812-69

All stainless steel separators

Dismountable (screw-on)	Welded monobloc	Food & drugs	Flanged separators	High-pressure separators
812-39	*812-40*	*812-34*	*812-38*	*812-42*

Pressure sensor
TP 805

Output signal: 4-20 m
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

BAMO

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 fluide

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

BAMO

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
VVDV & 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 handweel
Body : PVC, PPH, PVDF
Diaphragm : EPDM or PTFE coated
Fittings : male DN 15 ... DN 65

940-02

BAMO

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
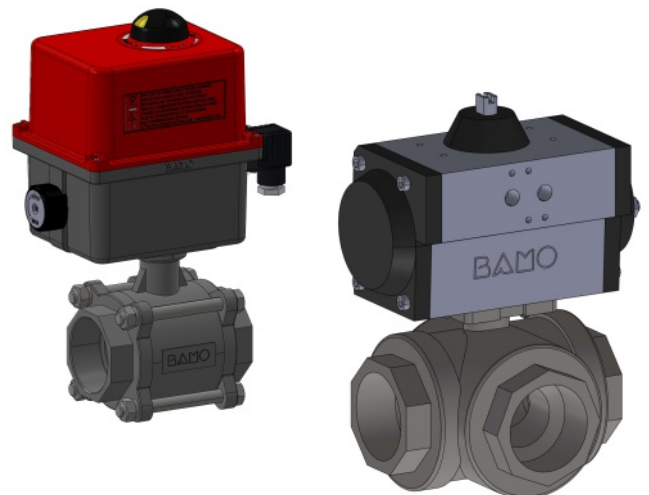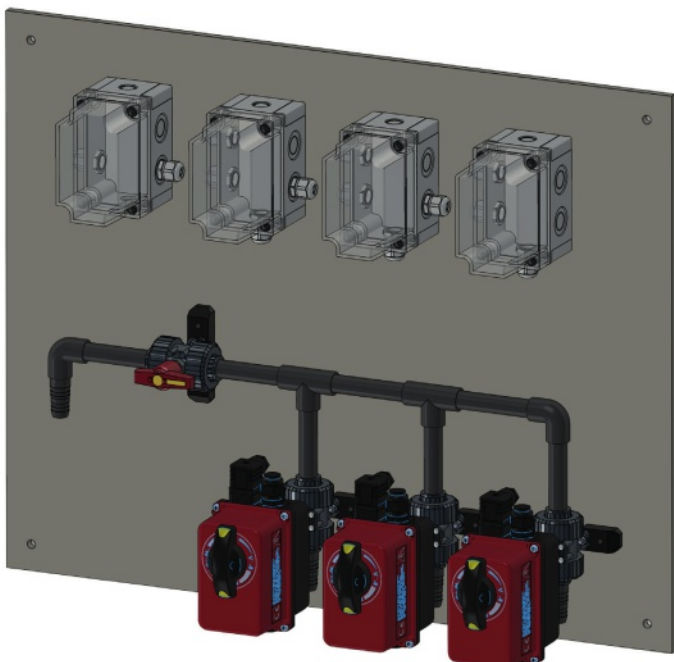### VEP
Stainless steel

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

BAMO

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
Head office

22, rue de la Voie des Bans
Parc d'activités de la Gare
95100 ARGENTEUIL - FRANCE

Capital : 400 000 €
APE 2651B
SIREN 314 055 864
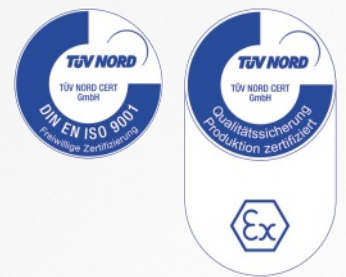*FR 08 314 055 864*

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Fax : +33 (0)1 34 10 16 05

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export@bamo.fr

Certified company

ISO 9001 CERTIFICATION — Intertek ™

cofrac — CERTIFICATION D'ENTREPRISES & DE PERSONNELS
ACCRÉDITATION COFRAC N° 4-0014 PORTÉE DISPONIBLE SUR www.cofrac.fr

Commercialisation, achats, logistique, gestion des commandes, et SAV

BAMO IER GmbH
German subsidiary

TÜV NORD CERT GmbH — DIN EN ISO 9001 Freiwillige Zertifizierung

TÜV NORD CERT GmbH — Qualitätssicherung Produktion zertifiziert

Ex

Other subsidiaries

BAMO Spain	GlobalAgua España
BAMO Poland	BAMO Polska Sp. z o.o.
BAMO Portugal	GLOBALÁGUA, LDA
BAMO KIRCHNER Germany	Bamo Kirchner GmbH

Kirchner
Durchflussmesstechnik

ISO 9001 DVGW CERT — VdS — Ex

2025