

**DRINKING
WATER**



**CLEAN
WATER**



**WASTE
WATER**



**AGGRESSIVE
LIQUIDS**



**HIGH
TEMPERATURES**



**GRAINS &
CEREALS**



STONES



POWDERS



**EXPLOSIVE
ENVIRONNEMENTS**

**FULL RANGE OF
LEVEL DETECTION
FOR LIQUIDS & SOLIDS**

ATMI
LEADER IN FLOAT & TILT LEVEL SWITCHES

ATMI designs and manufactures **high quality** float level switches for liquids and solids, allowing to respond to each detection level issues, regardless of the products in which they are installed. Over the last 50 years, ATMI has established its reputation by developing more than 20 float level switches available in several versions that are always more reliable, efficient and innovative. Through its network of **600 distributors**, ATMI is **present in more than 150 countries** to respond to customer demand with great responsiveness.

QUALITY **LEADER** **MANUFACTURER** **SPECIALIST** **FRENCH**

DETECTION **FAULT FREE** **PRICE** **SATISFACTION** **CUSTOMER**

RANGE **TECHNICAL** **ROBUSTNESS** **NETWORK** **PERFECTION**

DISTRIBUTOR **CERTIFICATION** **PROXIMITY** **RELIABILITY** **LEVEL**

RIGOR **QUALITY CONTROL** **DURABILITY** **EXPERIENCE** **ECONOMICAL**



THE ADVANTAGES OF ATMI FLOATS



DIVERSITY OF CABLES

Neoprene, PVC, HR HY, EPDM, Teflon : Trouble free prolonged immersion, even in the most aggressive liquid mixtures.

DIFFERENT BALLASTS

Large selection of adjustable weights on the cables, which can be fixed at the desired height to ensure precise operation in liquids of various densities, agitated or not.

VARIOUS MATERIALS

Polypropylene, HR HY, PTFE, PVDF, Stainless steel, Aluminium casings for all kinds of applications.

OMNIDIRECTIONAL

All ATMI devices can work in any position, unlike flat devices which only work in one direction.

BICONIC FORM

This avoids all risks of fouling and ensures maximum and lasting efficiency. Thus maintenance is not required.

ECOLOGICAL

Lead and mercury free.

RELIABLE

Our devices are equipped with micro switches guaranteeing an operation of 600,000 cycles.

DIFFERENT ANGLES

The devices have different angles from $\pm 5^\circ$ to $\pm 165^\circ$, depending on the model, which allows optimum use in still or agitated environments.

MAIN FIELDS OF APPLICATION

Drinking water for human consumption

ATMI offers various certified **ACS float level switches** to work in drinking water intended for human consumption. **The selection of the float will depend on the agitation of the liquid.**



**AQUA
MEDIUM EP**

- Switching angle: 10°
- **For non agitated liquids**
- Polypropylene casing
- EPDM cable
- Power supply: 12 ... 250 V
- Switching power: 16(6)A
- Ballast integrated in the float
- Dimensions: 140 mm - Ø 70 mm



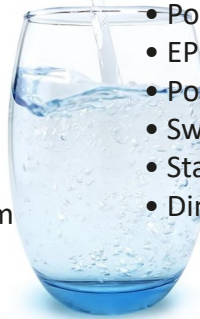
SOBA EP

- Switching angle: 25°
- **For lightly agitated liquids**
- Polypropylene casing
- EPDM cable
- Power supply: 12 ... 250 V
- Switching power: 16(6)A
- Stainless steel ballast - 230 gr
- Dimensions: 170 mm - Ø 80 mm



ATS 165 EP

- Switching angle: 165°
- **For heavily agitated liquids**
- Polypropylene casing
- EPDM cable
- Power supply: 50 ... 400 V
- Switching power: 20(8)A
- Stainless steel ballast - 230 gr
- Dimensions: 152 mm - Ø 95 mm



For grey, clear and rain water

For the **automation or regulation** of pumps in rainwater, clear water or lightly loaded liquids.



AQUA MEDIUM

- Switching angle: 10°
- **For non agitated liquids**
- Polypropylene casing
- PVC or Neoprene cable
- Power supply: 12 ... 250 V
- Switching power: 16(6)A
- Ballast integrated in the float
- Dimensions: 140 mm - Ø 70 mm



SOBA SMALL

- Switching angle: 25°
- **For lightly agitated liquids**
- Polypropylene casing
- Neoprene or HR HY cable
- Power supply: 12 ... 250 V
- Switching power: 16(6)A
- Ballast resin on cable 250 gr
- Dimensions: 130 mm - Ø 70 mm



BIP STOP

- Switching angle: 110°
- **For agitated liquids**
- Polypropylene casing
- Neoprene or HR HY cable
- Power supply: 50 ... 400 V
- Switching power: 20(8)A
- Optional ballast on cable
- Dimensions: 130 mm - Ø 70 mm

For waste water

For the automation or regulation of pumps in **heavy waste water, lifting stations, treatment plants.**



AQUA XL

- Switching angle: 10°
- **For non agitated liquids**
- Polypropylene casing
- PVC, neoprene, HR HY cable
- Power supply: 12 ... 250 V
- Switching power: 10(4)A
- Ballast integrated in the float
- Dimensions: 165 mm - Ø 100 mm



SOBA

- Switching angle: 25°
- **For lightly agitated liquids**
- Polypropylene casing
- Neoprene or HR HY cable
- Power supply: 12 ... 250 V
- Switching power: 16(6)A
- Ballast resin on cable 250 gr
- Dimensions: 170 mm - Ø 80 mm



ATS 165

- Switching angle: 165°
- **For heavily agitated liquids**
- Polypropylene casing
- Neoprene or HR HY cable
- Power supply: 50 ... 400 V
- Switching power: 20(8)A
- Optional ballast on cable
- Dimensions: 152 mm - Ø 95 mm



For small tanks with limited access

Tubular level detectors designed to be introduced into tanks through small accesses. They can also be used in **deep wells** (up to 5,5 bar) or **dense liquids** (up to 1,5 kg/l). For applications in **confined spaces**, where the other floats would not have enough space to switch, the SOBA S with **vertical release** can be used.



SOBA S

- Switching angle: 5°
- **For small space tanks**
- Polypropylene casing
- Neoprene or HR HY cable
- Power supply: 12 ... 250 V
- Switching power: 16(6)A
- Optional ballast on cable
- Dimensions: 170 mm - Ø 80 mm



TUBA 1''

- Switching angle: 20°
- **For limited access tanks**
- Polypropylene casing
- Neoprene cable
- Power supply: 12 ... 250 V
- Switching power: 12(6)A
- Optional ballast on cable
- Dimensions: 180 mm - Ø 29 mm



TUBA 1'' 1/4

- Switching angle: 20°
- **For limited access tanks**
- Polypropylene casing
- Neoprene cable
- Power supply: 12 ... 250 V
- Switching power: 12(6)A
- Optional ballast on cable
- Dimensions: 160 mm - Ø 36 mm



For aggressive liquids

Devices for automating or regulating pumps, specially designed for aggressive liquids.



SOBA HR HY

- Switching angle: 25°
- **For lightly agitated liquids**
- Double casing: PP + HR HY
- HR HY cable
- Power supply: 12 ... 250 V
- Switching power: 16(6)A
- Ballast on cable 250 gr
- Dimensions: 200 mm - Ø 92 mm



AT 120 HR HY

- Switching angle: 25°
- **For lightly agitated liquids**
- Double casing: PP + HR HY
- HR HY cable
- Power supply: 50 ... 400 V
- Switching power: 20(8)A
- Optional ballast on cable
- Dimensions: 200 mm - Ø 92 mm

For high temperatures and/or very aggressive liquids

Range of level detectors intended to work in **extremely aggressive liquids** such as sulphuric acid, and or very hot liquids reaching **temperatures up to 150° C**.



TUBA 125 C

- Switching angle: 20°
- **For lightly agitated liquids**
- PVDF casing
- PTFE cable
- Power supply: 12 ... 230 V
- Switching power: 6(4)A
- PVDF ballast
- Dimensions: 205 mm - Ø 40 mm



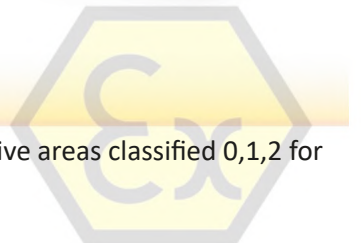
TUBA 150 C

- Switching angle: 20°
- **For lightly agitated liquids**
- PTFE casing
- FEP cable
- Power supply: 24 ... 250 V
- Switching power: 1A 60 VA
- Optional ballast
- Dimensions: 130 mm - Ø 55 mm



For potentially explosive areas

The SOBA EX is an ATEX certified device intended to work in liquid mixtures for potentially explosive areas classified 0,1,2 for gases and 20,21,22 for dust. **The SOBA EX must be connected to an intrinsic safety relay***.



SOBA EX

- Switching angle: 25°
- **For lightly agitated liquids**
- Double casing: PP + HR HY
- HR HY cable
- Power supply: 12 ... 24 V
- Switching power: 10(4)A
- Ballast on cable 250 gr
- Dimensions: 200 mm - Ø 92 mm



For continuous measurement

ATMI completes its range of float level switches for level control of liquids by introducing piezometric probes (PIEZO). These **hydrostatic probes** make it possible to measure and monitor the level of **liquids continuously**.



PIEZO ST

- Measuring range of 1 - 500 mH2O
- **For clear waters**
- Hastelloy C276 cell
- PU or ETFE cable
- Power supply: 8 ... 36 V
- Measurement signal: 4 - 20 mA
- Dimensions: 156 mm - Ø 25 mm



PIEZO AS

- Measuring range of 1- 500 mH2O
- **For waste water**
- AISI 316 L stainless steel cell
- PU or ETFE cable
- Power supply: 8 ... 36 V
- Measurement signal: 4 - 20 mA
- Dimensions: 130 mm - Ø 25 mm



For conductive liquids

The level probes for **conductive liquids** are level control relays or regulators which keep liquids within the limits set between a maximum and a minimum level to ensure the protection of submersible pumps against dry running.



AT SONDES

- Standard or high sensitivity
- **For clear waters**
- Body in ABS and in stainless steel
- 1.5 mm² neoprene cable
- Power supply: 10 V
- Dimensions: 85 mm - Ø 22 mm



AT 10 - AT 20

- Standard or high sensitivity
- For liquids with high or low conductivity
- Up to 3 AT probes
- Power supply: 220 V
- Switching power: 5A
- Dimensions: 53 x 95 x 58 mm



AT 50

- Variable sensitivity
- For conductive liquids
- Up to 3 AT probes
- Power supply: 220 V
- Switching power: 5 A
- Dimensions: 90 x 54 x 59 mm



AT 100

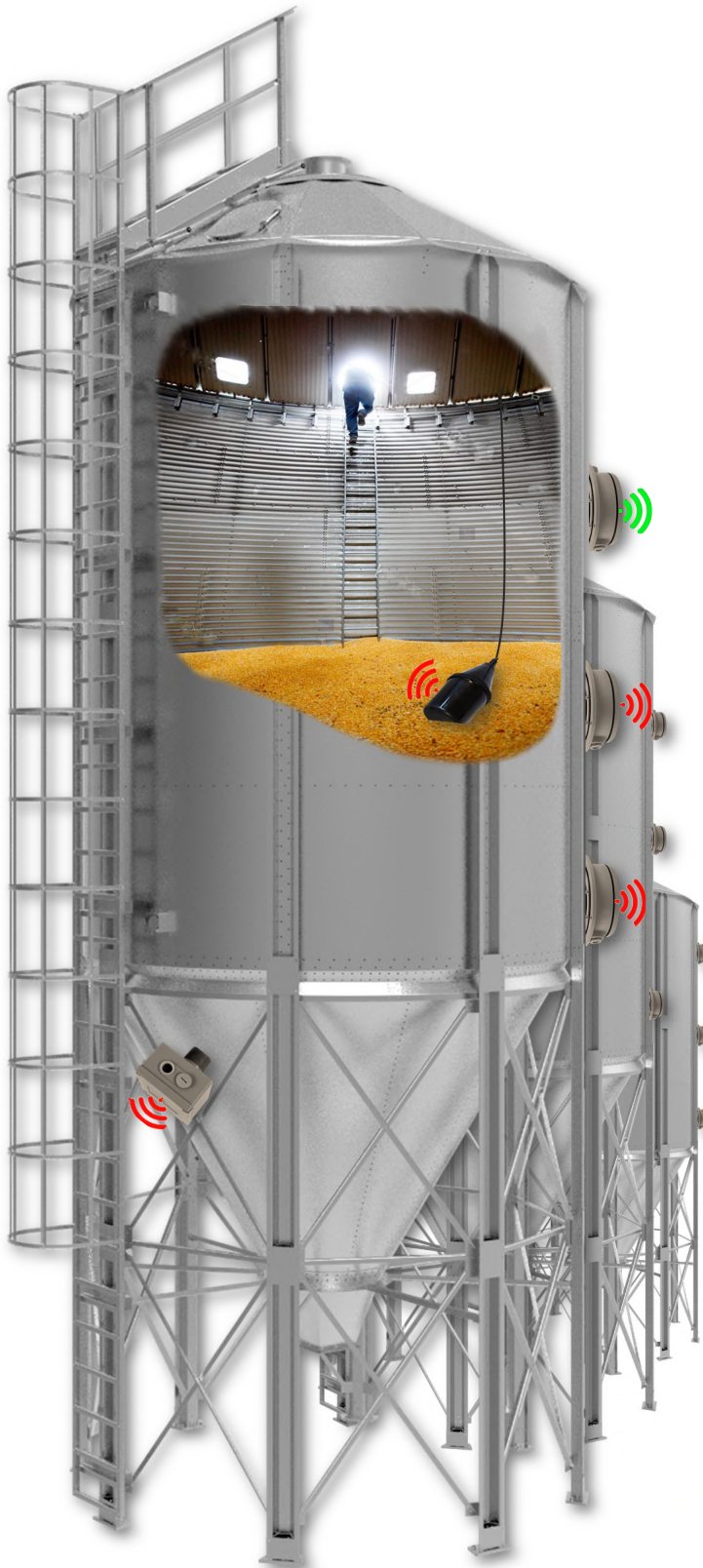
- Standard sensitivity
- For highly conductive liquids
- Up to 7 AT probes
- Power supply: 220 V
- Switching power: 5 A
- Dimensions: 72 x 90 x 60 mm

For all types of bulk seeds, powders and cereals...

• **Tilt level sensors**

ATMI developed a range of level detectors **for stopping the filling of silos by mechanical tilting**, which constitutes a very simple, reliable and very economical system. These detectors exist in standard and **ATEX certified** versions.

For the GP version, the device must be connected to an intrinsic safety relay*.



SOLIBA

- Switching angle: 10°
- For non ATEX areas
- Polypropylene casing
- PVC or Neoprene cable
- Power supply: 50 ... 400 V
- Optional ballast on cable
- Dimensions: 152 mm - Ø 95 mm



SOLIBA EXP o EXGP

- Switching angle: 10°
- For ATEX 0,1,2 and 20,21,22 areas
- Double casing: PP + HR HY
- HR HY cable
- Power supply: 12 ... 250 V
- Optional ballast on cable
- Dimensions: 200 mm - Ø 92 mm



SOLIBA E

- Switching angle: 10°
- For non ATEX areas
- Food grade stainless steel + PP
- Neoprene cable
- Power supply: 50 ... 400 V
- Optional ballast on cable
- Dimensions: 210 mm - Ø 200 mm



SOLIBA E EXP o EXGP

- Switching angle: 10°
- For ATEX 0,1,2 and 20,21,22 areas
- Food grade stainless steel + HR HY
- HR HY cable
- Power supply: 12 ... 250 V
- Optional ballast on cable
- Dimensions: 210 mm - Ø 200 mm





• Membrane level sensors

For **monitoring the minimum, maximum and/or intermediate levels** of bulk products in silos, ATMI offers membrane level detectors. The functioning is the result of the pressure exerted by the bulk product on the membrane.

SOLIBA M level detectors can also be used to avoid jams during filling.



SOLIBA MS

- Functioning by pressure
- For small silos
- ABS casing
- NBR or Viton membrane
- Switching power: 16 A / 250 V CA
- Density: 0.3 t/m³ ... 2.5 t/m³
- Dimensions: 56 mm - Ø 90 mm

SOLIBA M

- Functioning by pressure
- For silos
- Reinforced polyester casing
- NBR or Viton membrane
- Switching power: 10 A / 250 V CA
- Density: 0.3 t/m³ ... 2.5 t/m³
- Dimensions: 59 mm - Ø 142 mm

SOLIBA MXL

- Functioning by pressure
- For big silos
- Reinforced polyester casing
- NBR or viton membrane
- Switching power: 10 A / 250 V CA
- Density: 0.3 t/m³ ... 2.5 t/m³
- Dimensions: 78 mm - Ø 187 mm

• Rotary pallet level sensors

Rotary pallet level sensors respond to a large number of high, low and/or intermediate level control applications. The different types of pallets or fittings make it possible to adapt to the tanks and the products to be detected.

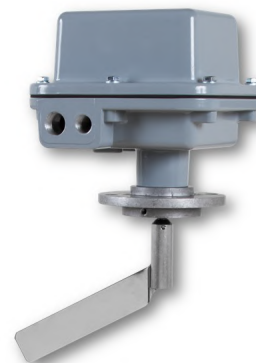
SOLIBA PRP

- Functioning by rotation
- Measuring blade speed : 5 rpm
- Reinforced ABS body
- AISI 304 stainless steel pallet
- Power supply: 24 ... 250 V
- Switching power: 2A
- Dimensions: 175 x 143 x 290 mm



SOLIBA PRA

- Functioning by rotation
- Measuring blade speed : 1 rpm
- Aluminium body
- AISI 304 stainless steel pallet
- Power supply: 24 ... 250 V
- Switching power: 15A
- Dimensions: 130 x 105 x 235 mm



For all types of very light powder



• Tongue level sensors

The tongue level controller is used to **detect the level of material in the hoppers and small containers**. It is generally used in farm animal feeders to indicate lack of food.

When the hopper fills, the material exerts a progressive pressure against the tongue and forces it to retract and actuate the micro switch.



SOLIBA L

- Functioning by pushing
- **For non ATEX areas**
- Polyamide casing
- PVC cable
- Power supply: 250 V
- Switching power: 2A
- Dimensions: 68 x 24 x 135 mm



SOLIBA LP

- Functioning by pushing
- **For non ATEX areas**
- Polyamide and ABS casing
- PVC cable
- Power supply: 250 V
- Switching power: 2A
- Dimensions: 78 x 32 x 177 mm



SOLIBA LPT

- Functioning by pushing
- **For non ATEX areas**
- Polyamide and ABS casing
- PVC cable
- Power supply: 250 V
- Switching power: 2A
- Dimensions: 78 x 32 x 177 mm

For all types of stones, pebbles, minerals

The level detector equipped **with a very robust metal protection** allows, without risk of deterioration, the high **detection of heavy and bulky materials**, of conveyor belts or all types of conveyors in the event of excessive loading height.

SOLIBA PM

- Switching angle 10°
- Non ATEX and ATEX for zones 21 22 versions
- Cast aluminium casing
- PVC, Neoprene or HR HY cable
- Power supply 12...250 V
- Dimensions 280 mm - Ø 170 mm



OUR ACCESSORIES

In order to meet the needs of different customers, ATMI has identified the **essential accessories** to ensure optimal and secure level of detection/regulation.

For fixing

The FIXCAB for level contactors is an inexpensive accessory that is too often overlooked in installations. Its use is strongly recommended for fixing all suspended devices **to avoid the deterioration of the outer sheath of electric cables.**

For monitoring

Possibility to equip our devices with an **alarm module allowing the remote monitoring of the level of a liquid or a solid**, in a tank or a silo. If the level is reached, the module issues alarm notifications by SMS and/or phone calls. It is easy to configure.

For simplicity

For some installations, the regulators can be equipped with a multifunction outlet which allows the **starting or stopping of a pump by powering the pump directly to the electrical outlet without passing through a control cabinet.**

For ballasting

The adjustable ballasts on cables **constitute the point of rotation** of the float level switches according to the desired liquid levels. They are essential for the proper functioning of floats beyond a meter in cable length when it is not attached. Be careful to not use collars or other systems to replace the ballasts, which can injure the cable and also damage the device.

Loaded resin ballasts

175 gr – 250 gr – 350 gr

- Choice of ballast according to the float
- **Robust**
- ATEX certified (250 gr)

Clip-on ballast

275 gr

- For all contactors
- **Can be easily attached after the installation of floats**

Plastic ballast

200 gr

- Recommended for BIP STOP
- **Economical**

Stainless steel ballast AISI 316 L

230 gr

- For ACS certified contactors
- **Stainless Robust**
- ACS certified





ATMI

LEADER IN FLOAT & TILT LEVEL SWITCHES

Look no further, ATMI has the device you need

Applications Techniques Modernes Industrielles
2, avenue des Bosquets 78180 Montigny-Le-Bretonneux, France
Phone: +33 1 61 37 35 60 - Fax: +33 1 61 37 35 69
www.atmi.fr - sales@atmi.fr