



I'VE GOT THIS
UNDER CONTROL

...OK SURE!
I'M OFF THEN.

**Overflowing Containers -
Harmful and Dangerous!
The Solution: SCAT Europe
Level Control Systems.**

SCAT level controls warn of overflowing or empty containers with a visual and acoustic signal. In addition, peripheral devices such as pumps and valves can be controlled via contact switches.

Level Control

- ✓ Safe Monitoring of Fill and Empty Levels
- ✓ Electronic or Mechanical
- ✓ Manually Calibratable Alarms



Level Control against Overflow and Emptiness

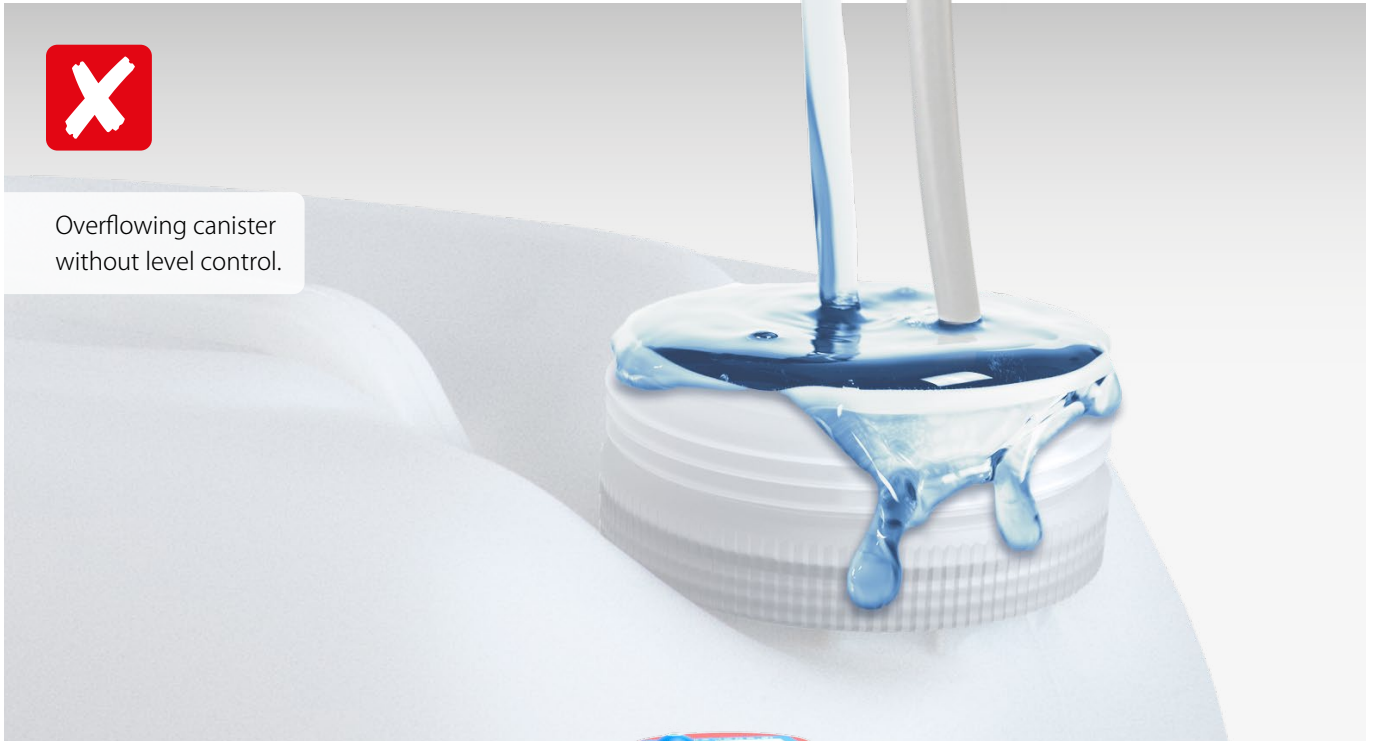
Whether overfilling or emptiness - both do harm and disrupt the processes in everyday laboratory work. The level control developed by SCAT warns of critical fill levels with an optical and acoustic signal. In addition, peripheral devices such as pumps and valves can be controlled via contact switches.



You know This? Comparison



Overflowing canister
without level control.

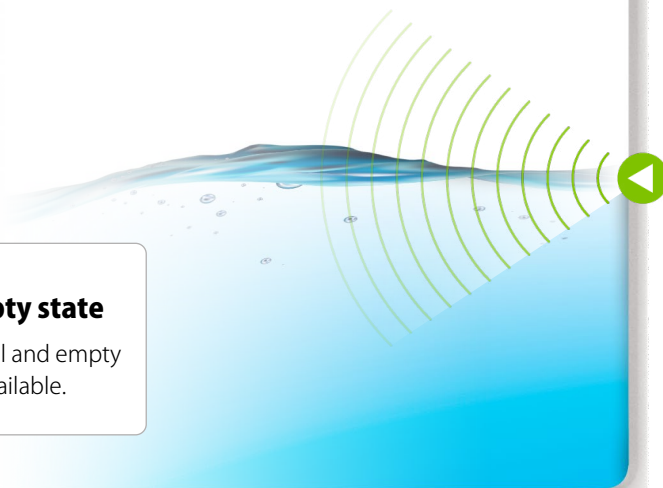


Hermetically sealed containers
with fill or empty sensors.



Sensors for Fill Level States

SCAT sensors detect liquids through glass or plastic, without contact with the contents of the container. Simply attach at the desired height - In conjunction with a SCAT signal box, you receive an optical and acoustic warning when a critical fill level is reached. Available as a fill level or empty level sensor.



Fill or empty state

Sensors for fill and empty level state available.

Easy Mounting

- Suitable for all commercially available containers made of glass or non-conductive plastic

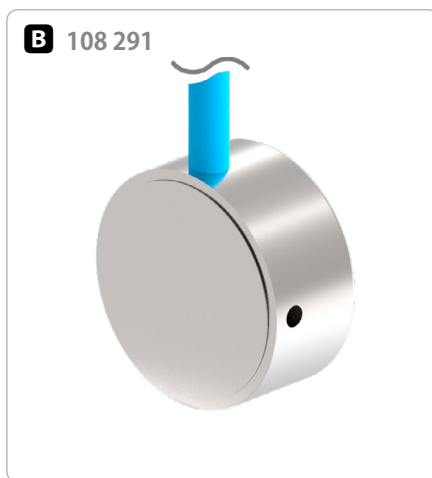
Alarm

- Transmits signal to electronic signal boxes, see **page 124**

Sensitivity

- The sensitivity is adjustable according to wall thickness

Sensors for Fill Level States



Looking for the right container?

Canisters, bottles and other containers, suitable with the SCAT Level Control Sensors starting from **page 130**.



Fig.	Part No.	Description	Thread	Material	ATEX compliant
A	108 048	Disc sensor, alarm at full state	-	-	-
	108 045	Disc sensor, alarm at empty state	-	-	-
B	108 291	Capacitive disc sensor Output function: NAMUR, operating distance 1 - 10 mm adjustable Switch amplifier necessary (108 278)	-	Stainless steel Active: PTFE	●
C	108 301	Capacitive sensor for leakage control Output function: NAMUR, operating distance 0.5 - 3 mm adjustable Switch amplifier necessary (108 278)	-	PTFE	●
D	108 277	Capacitive rod sensor with LED indicator Sensor length: 70 mm, cable length: 2 m Output signal: NAMUR, operating distance 1 - 6 mm adjustable Switch amplifier necessary (108 278)	M12x1	PTFE	●
	108 303	Capacitive rod sensor with LED indicator Sensor length: 70 mm, cable length: 5 m Output signal: NAMUR, operating distance 1 - 6 mm adjustable Switch amplifier necessary (108 278)	M12x1	PTFE	●
E	108 178	Capacitive rod sensor for canister 108 042-S1 (page 144)	M18x1	Brass Active: PTFE	●
	900 108	Hook and loop fastener tape for disc sensor, length = 2 m	-	-	-
	900 107	Dual Lock, reclosable fastening system for disc sensor, 10 pieces	-	-	-

Signal Boxes for Level Control

Our signal boxes always warn you in time with visual and acoustic signals before the determined fill level of your collection containers reaches the critical level. This prevents from unseen overflowing of your containers. Compatible with all SCAT level control sensors. The alarm can be silenced during the exchange of the container.

Electronic Signal Boxes T1 and T5

- For disc sensors and Safety Waste Caps with electronic level control
- External devices such as pumps or valves can be controlled via potential-free outputs



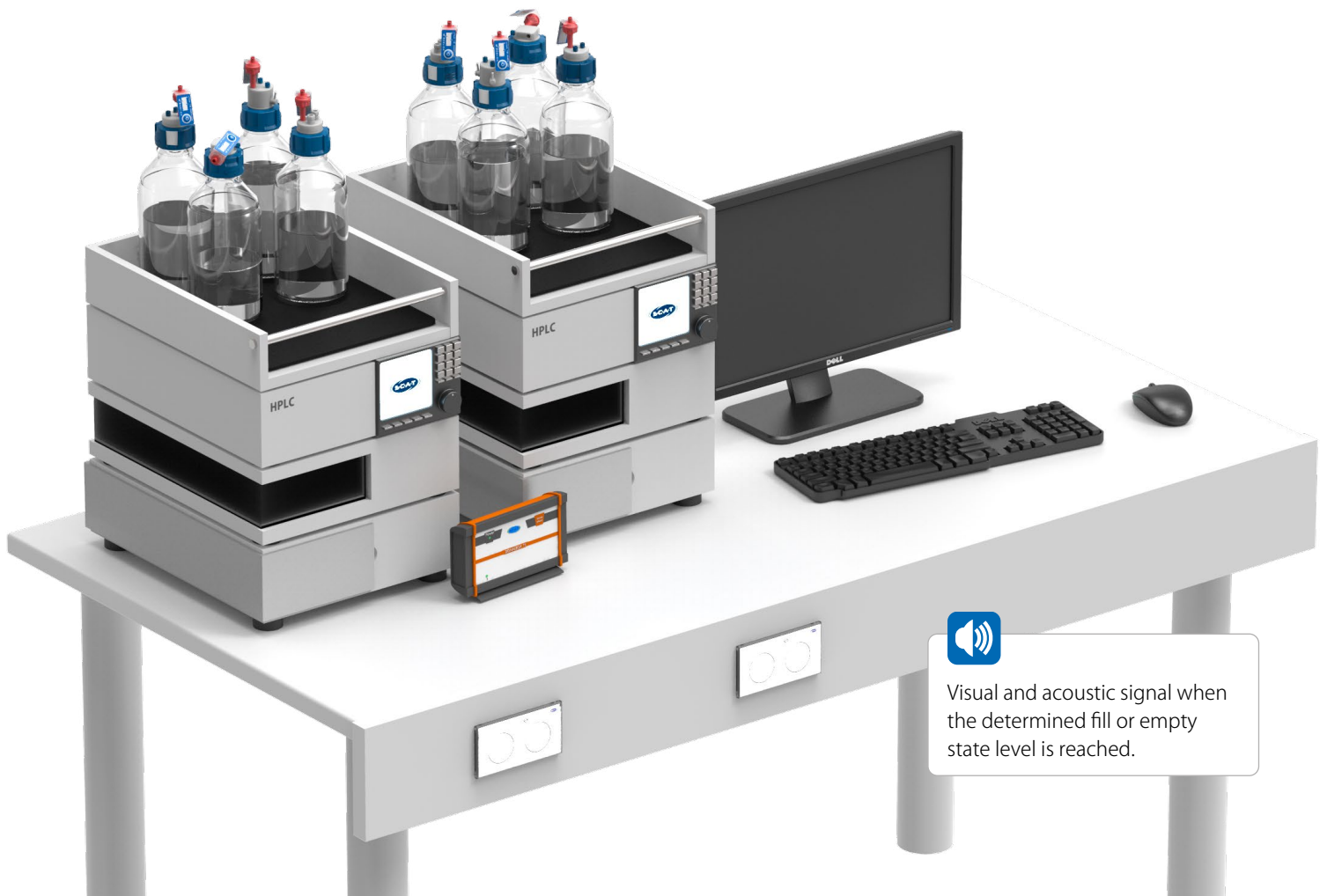
Further informations

More informations about signal boxes can be found in our SymLine® system catalogue.

Visit our website www.symline.de and go to the downloads section.

You can find an extract of the chapter "Level Control" with the following QR code.

SymLine[®]
Chemical Waste Systems



Visual and acoustic signal when the determined fill or empty state level is reached.

Signal Boxes for Level Control

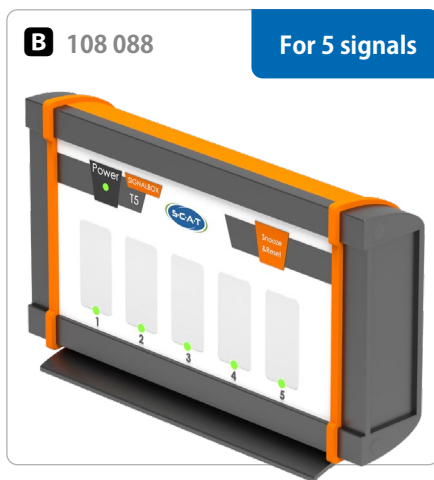


Fig.	Part No.	Description	Connections for Sensors	Material
A	108 087	Signalbox T1 (EU)	1	-
	108 122	Signalbox T1 (UK)	1	-
	108 119	Signalbox T1 (US)	1	-
B	108 088	Signalbox (EU)	5	-
	108 124	Signalbox T5 (UK)	5	-
	108 121	Signalbox T5 (US)	5	-
C	106 548	Built-in Signalbox² (EU)	2	-
	106 582	Built-in Signalbox² (UK)	2	-
	106 583	Built-in Signalbox² (US)	2	-
D	106 698	Table display for Built-in Signalbox², wall thickness: 2 mm	-	Stainless steel, brushed
E	106 658	Mount for Built-in Signalbox², wall thickness: 2 mm	-	Stainless steel, brushed
F	106 703	Front panel for Built-in Signalbox², wall thickness: 2 mm	-	Stainless steel, brushed
	108 304	Signal cable 1.5 m	-	-
	108 050	Signal cable 3 m	-	-
	108 037	Signal cable 5 m	-	-
	108 038	Signal cable 10 m	-	-

HP/LC-Supply

HP/LC-Disposal

Safety Funnels

Level Control

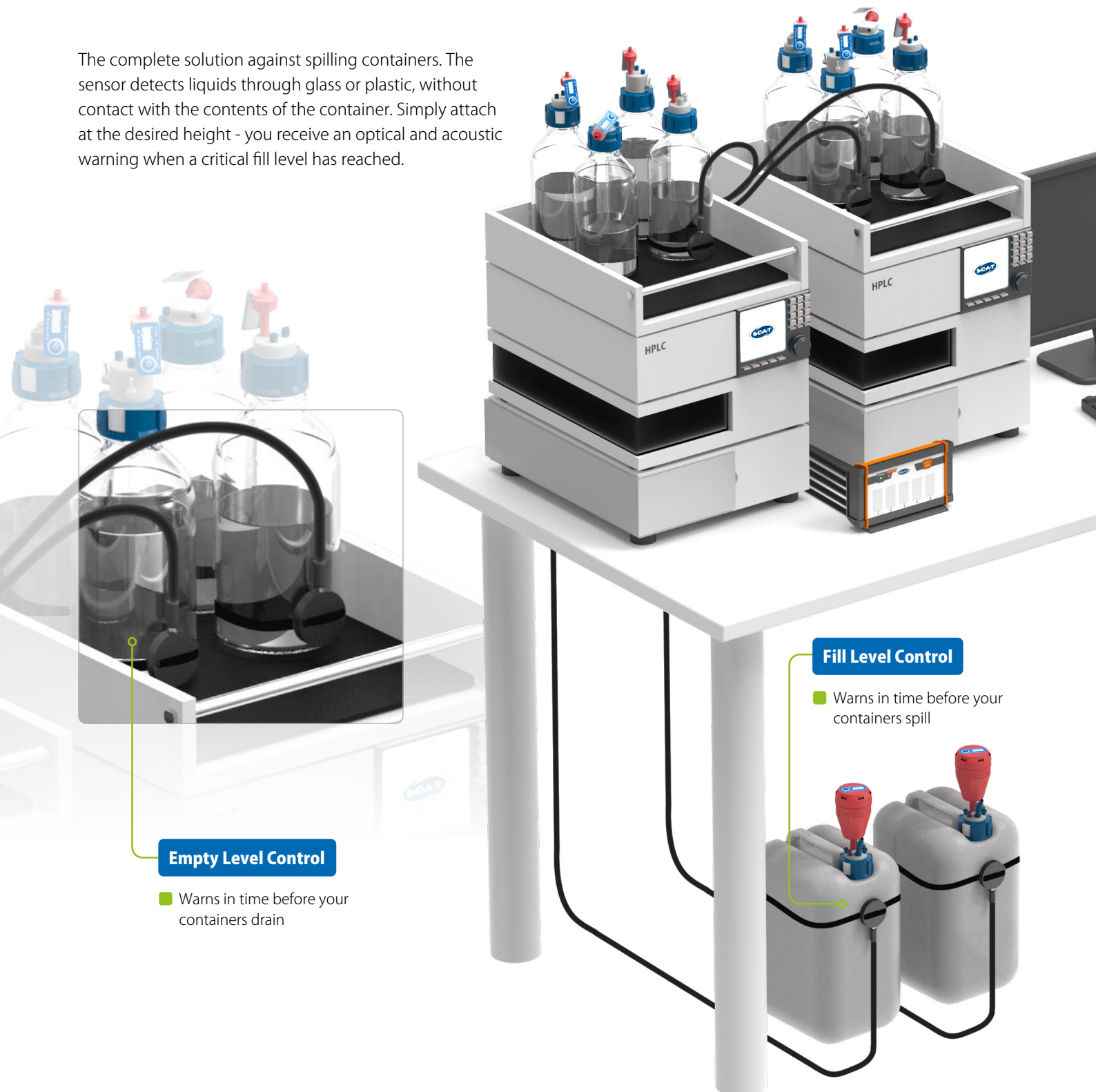
Containers

Accessory

Addendum

Level Control Disc Sensor Sets

The complete solution against spilling containers. The sensor detects liquids through glass or plastic, without contact with the contents of the container. Simply attach at the desired height - you receive an optical and acoustic warning when a critical fill level has reached.



Empty Level Control

- Warns in time before your containers drain

Fill Level Control

- Warns in time before your containers spill

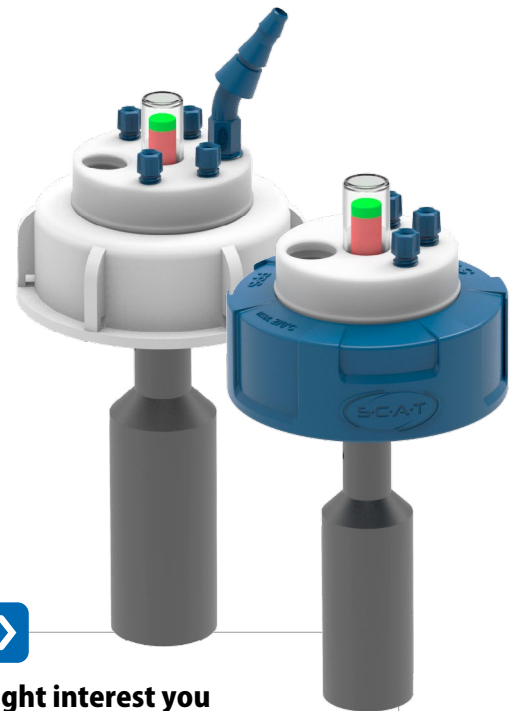
Level Control Disc Sensor Sets



Fig.	Part No.	Description
A	117 988	Signalbox T5 - EU , 5x disc sensor fill state , 5x 3 m signal cable, 5x 2 m hook and loop fastener for disc sensor incl. 220/230V EU power supply
	108 125	Signalbox T1 - EU , with disc sensor, alarm at fill state , 3 m signal cable, 2 m hook and loop fastener for disc sensor, 220/230V EU power supply
	108 157	Signalbox T1 - EU , with disc sensor, alarm at empty state , 3 m signal cable, 2 m hook and loop fastener for disc sensor, 220/230V EU power supply
	108 158	Signalbox T1 - USA , with disc sensor, alarm at fill state , 3 m signal cable, 2 m hook and loop fastener for disc sensor, 110V USA power supply
	108 159	Signalbox T1 - USA , with disc sensor, alarm at empty state , 3 m signal cable, 2 m hook and loop fastener for disc sensor, 110V USA power supply
	108 160	Signalbox T1 - UK , with disc sensor, alarm at fill state , 3 m signal cable, 2 m hook and loop fastener for disc sensor, 220/230V UK power supply
	108 161	Signalbox T1 - UK , with disc sensor, alarm at empty state , 3 m signal cable, 2 m hook and loop fastener for disc sensor, 220/230V UK power supply

Level Control Mechanical

Reliable protection against spilling during the filling of barrels.



Might interest you

SCAT Safety Waste Caps are also available with a mechanical level control.

More on this topic from **page 75**.



Funnel for barrel

ARNOLD funnels without ball-valve are suitable for high flow rates or highly viscous liquids.

More on this topic from **page 110**.



Adapter with Level Control for Funnel

■ R2" BSP/G2" (m) to GL45 (m)

Level Indicator for Barrels

■ G3/4" (m)

Level Control Mechanical

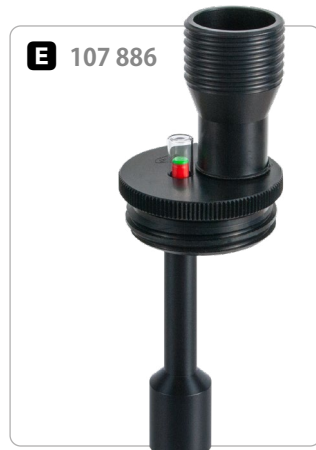
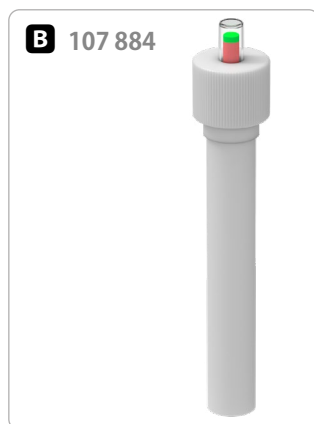
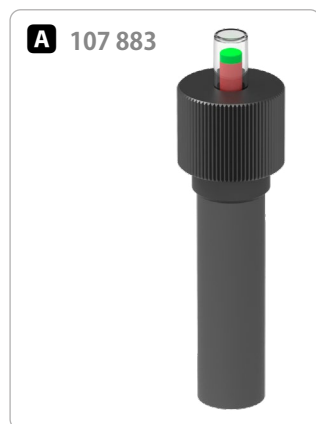


Fig.	Part No.	Description	Material	Thread	Electrostatic conductive
A	107 883	Level indicator, mechanical, for barrels, for containers up to 200 litre, Length of floater = 86 mm, diameter = 18 mm	PE-HD-EL	G3/4" (m)	●
B	107 884	Level indicator, mechanical, for barrels, for containers up to 200 litre, Length of floater = 150 mm, diameter = 18 mm	PTFE	G3/4" (m)	-
C	107 885	Adapter for funnels with mechanical level control, barrel double thread R2" BSP/G2" (m) to GL 45 (m)	PE-HD-EL	R2" BSP/G2" (m) to GL 45 (m)	●
D	107 892	Adapter for funnels with mechanical level control, barrel double thread R2" BSP/G2" (m) to GL 45 (m)	PP	R2" BSP/G2" (m) to GL 45 (m)	-
E	107 886	Adapter for funnels with mechanical level control, barrel thread BCS 70x6 (m) to GL 45 (m)	PE-HD-EL	R2" BSP/G2" (m) to GL 45 (m)	●
F	107 889	Adapter for funnels with mechanical level control, S 60 (f) to GL 45 (m)	PE-HD-EL	S 60 (f) to GL 45 (m)	●
G	160 121	Floater for mechanical / electronic level control, length 120 mm, PE-EL/PP	PE-HD-EL PE-HD	-	●
	160 125	Floater for mechanical / electronic level control, length 150 mm, PE-EL/PP	PE-HD-EL PE-HD	-	●
	160 206	Floater for mechanical / electronic level control, length 190 mm, PE-EL/PP	PE-HD-EL PE-HD	-	●
	502 021	Floater for mechanical / electronic level control, length 91.5 mm, PE-EL/PP	PE-HD-EL PE-HD	-	●