

Wireless Level Control

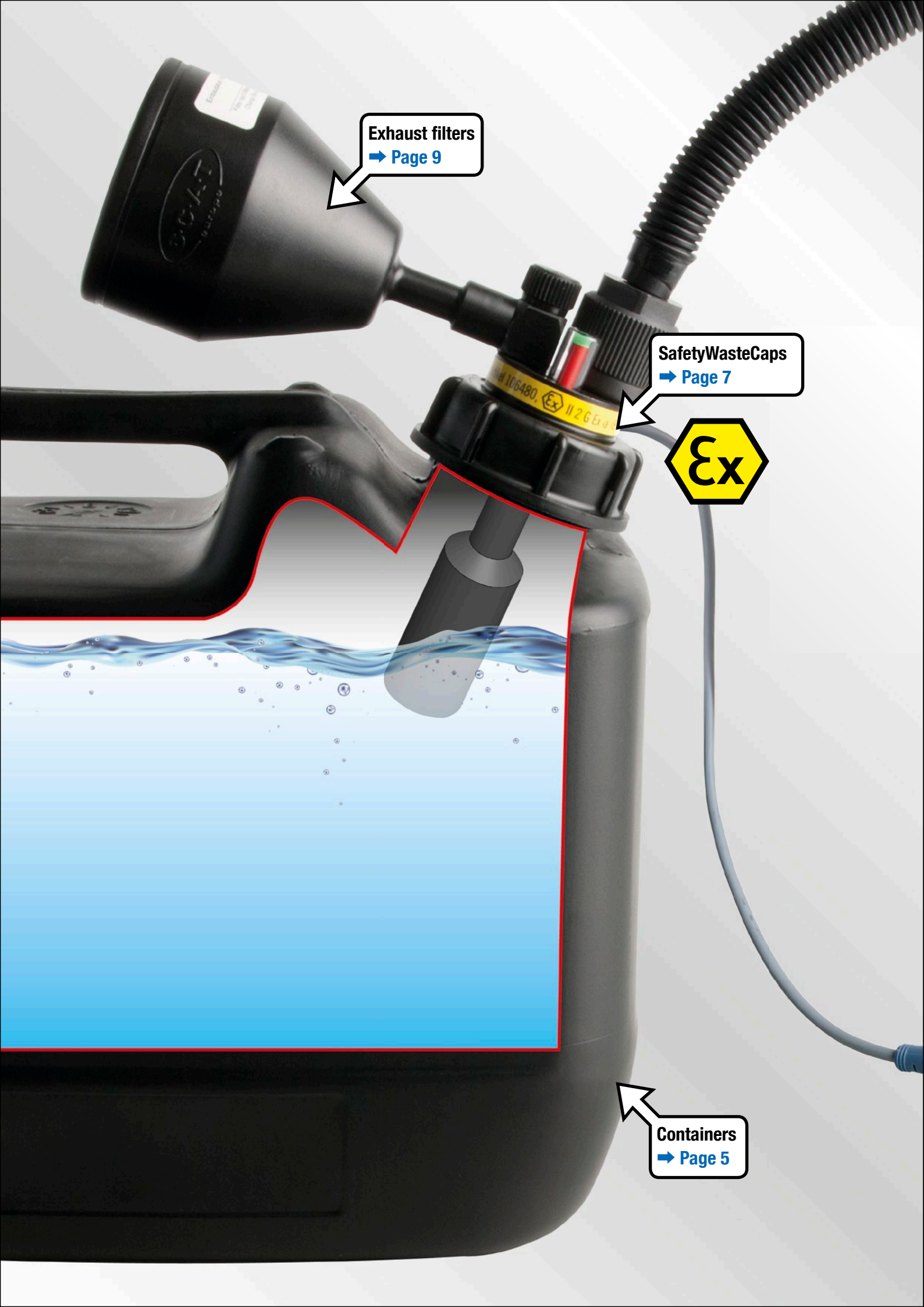
Observe critical fluid levels safely - even in -Zones!

CLEVER!



Safety Solutions
www.scat-europe.com





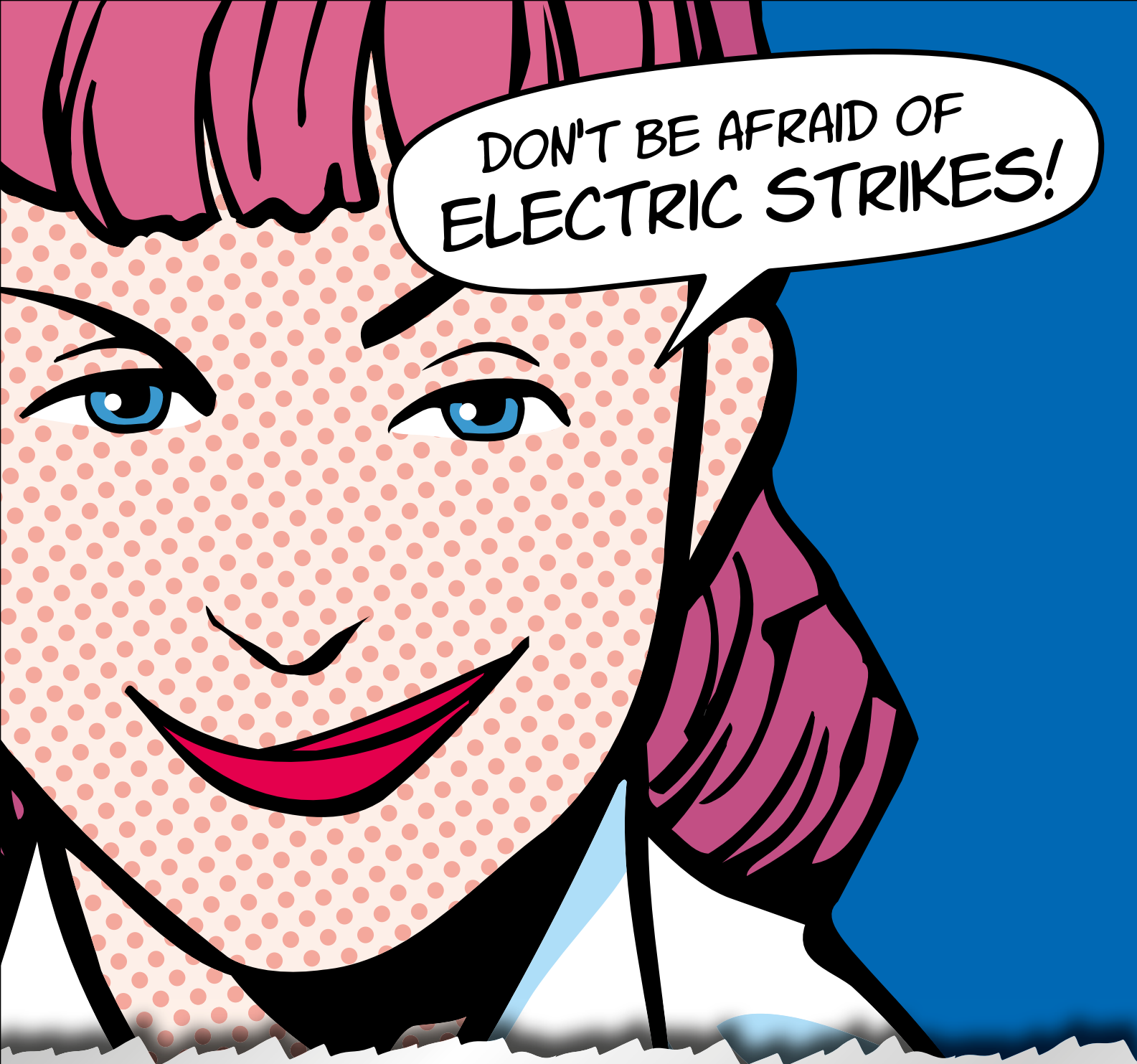
The approved S.C.A.T. System for safe disposal of fluid waste - now available with wireless level control. ATEX compliant and TÜV approved for operation within explosion-protected areas.

Even if stored in floor units or safety cupboards, you can easily prevent overflowing containers and observe critical fluid levels automatically. Thanks to radio transmission, the system is ready to operate without technical changes to your laboratory equipment or furniture.

Contents

Containers	5
SafetyWasteCaps.....	7
Exhaust filters.....	9
Sender	11
Receiver.....	13
Officially tested safety.....	15





Containers made of electroconductive PE-HD avoid sparking and fire hazards caused by electrostatic electricity. They can be grounded like metal containers. Because of their light weight, they can be transported a lot easier than metal containers, even in filled condition.

Containers with thread size S90 have an additional viewing strip, showing the fill level even if the container is not connected to the level control system.

Containers

» Electroconductive plastics

for safe grounding against electrostatic charge.

» Light weight

Optimum replacement for heavy steel containers. Easier to handle even when filled, thanks to their light weight.



Picture	A	B	C
Part no.	108 420	107 953	108 027
Thread size	S 90	S 60	S 60
Capacity	10 Litres	10 Litres	20 Litres
Dimensions:			
Width	195 mm	185 mm	185 mm
Depth	195 mm	290 mm	290 mm
Height	380 mm	265 mm	500 mm
Material	PE-HD, electroconductive, black		
Viewing strip	•	-	-

Safety Waste Caps

» ATEX compliant

for operation in explosion-protected areas according to directive 94/9/EG.

» TÜV approved safety!

The cap meets the safety and health requirements of directives EN 60079-0:2009 and 60079-11:2007.

» GL25 tubing connection.

The GL25 connector fits our tubing system for laboratory installations. This way, the waste container can be placed centrally and be used by multiple workstations at the same time.

» Compatible to S.C.A.T. waste systems

You can connect any SafetyWasteCaps with electronic level control to the level control system. Find all suitable caps in our main catalogue - also available with HPLC connection. Simply choose one of the caps with the following sign:



Find our main catalogue with many other products for safe fluid management at www.scatt-europe.com.



Picture	A	-	-
Part no.	106 480	106 484	106478
Thread size	S 60	S 90	S 55
Material	PE-HD, elektrisch leitfähig, schwarz		
Connections	1x Gewinde GL25 (m) 1x Anschluss für Abluftfilter 1x Anschluss für Sender FSG 1 1x Füllstandsanzeige am Verschluss		
Ex-Directive	94/9/EG		
Identification	Ex II 2 G Ex ia IIB T6 Gb		

For exhaust filters,
please see → page 9

Safety Waste Caps are the world's most entire and unique system for safe disposal of liquid waste. They tighten the disposal containers safely and provide the connection to the level control system. The sender FSG 1 (→ page 11) can be connected directly to the caps.

The standard caps come with a GL25 tubing connector, suitable for the tubing system of S.C.A.T. laboratory installations. You can also use any cap that has a connector for the electronic level control from our main catalogue.

Exhaust filters

» Up to 120.000 m² filtering surface!

Providing a specific surface of 1.200m²/g, our granulate is the optimum filter medium for solvent vapours and other hazardous substances. L sized filters provide an active surface of 120.000 m².

» It's all about the mixture!

The granulate is based on activated carbon and contains further components that avoid clumping. This way, it enables maximum filter performance compared to standard charcoal filters.

Filter granulate
Mixture of activated carbon and further components against clumping - for maximum filter performance.



Picture	Part no.	Size	Service life	Recommended for container capacity	Additional equipment
A	107 911	S (klein)	3 Monate	up to 5 litres	-
B	107 985	S (klein)	3 Monate	up to 5 litres	Splash guard cover
C	107 914	M (mittel)	6 Monate	up to 20 litres	-
D	107 982	M (mittel)	6 Monate	up to 20 litres	Splash guard cover
E	107 615	L (groß)	9 Monate	over 20 litres	-
F	107 986	L (groß)	9 Monate	over 20 litres	Splash guard cover

Exhaust filters are one of the most important parts of the S.C.A.T. safety system. They clean the exhaust air from solvent vapours and are available in different sizes. Providing a specific surface of 1.200m²/g, our multicomponent granulate is the optimum filter material for any solvent vapours. 99% of all hazardous substances are filtered and can not evaporate directly into the ambient air.

YOUR PERSONAL
BODY GUARDS!



The sender FSG 1 is connected directly to the Safety Waste Caps (→ page 7) and transmits a wireless warning signal to the receiver when your waste container reaches the critical fluid level.

Suitable for operation in explosion-protected areas. The sender meets all requirements of directive 94/9/EG and has been officially certified by DEKRA.

Sender FSG 1

» ATEX compliant

DEKRA-tested for operation in explosion-protected areas.

» Appropriate to safety cupboards!

Observe critical fluid levels even when your waste container is out of sight - thanks to radio transmission.

» Compatible to S.C.A.T. waste systems!

The sender fits any SafetyWasteCaps with electronic level control from our main catalogue. Choose caps with this sign and connect them to the sender:



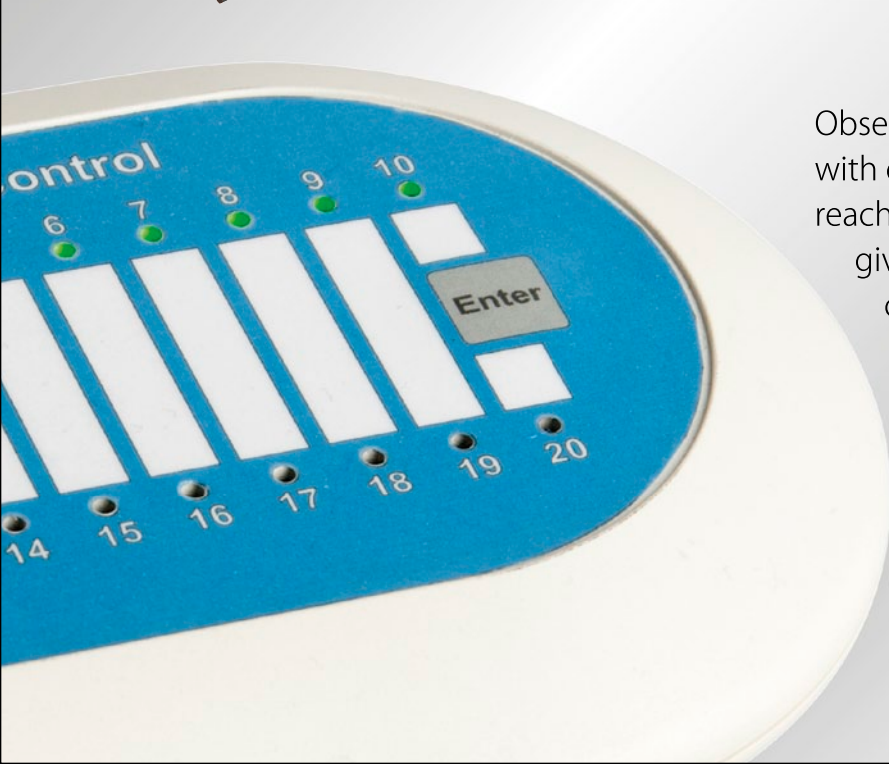
Technical data

Dimensions (WxDxH)	89 x 49 x 34 mm
Weight	ca. 100 g
Power supply	3V Lithium cells (CR1/2AA), VARTA
Current drain	5 µA during standby / 30 mA during sending/receiving
Frequency	868-870 MHz
Transmission power	100 mW
Transmission type	Request/acknowledge protocol error protection by CRC
Input/relais	Opening/closing contact for redundant level reporting
Identification	Ex II 1G Ex ia IIC T5 Ga



Ordering information

Picture	Part no.	Description
A	108 241	Sender FSG 1 with battery
B	108 245	Sender FSG 1 (package of 5 senders with batteries)
-	108 249	Battery for sender FSG 1
-	108 248	Safety pocket for sender FSG 1 (prescribed when operating in explosion- protected areas).



Observe up to 20 containers at the same time with one receiver. When one of the containers reaches a critical fluid level, the receiver gives an audio signal and points out the corresponding container with a red light. This way, you always keep your disposal containers under control.

A mains adapter is included in delivery (available for different countries - see "Ordering information").

Receiver FSS 1

» Observe up to 20 containers - wireless!

The receiver evaluates the signals of up to 20 senders and outputs an optical and acoustic signal when reaching critical fluid levels.

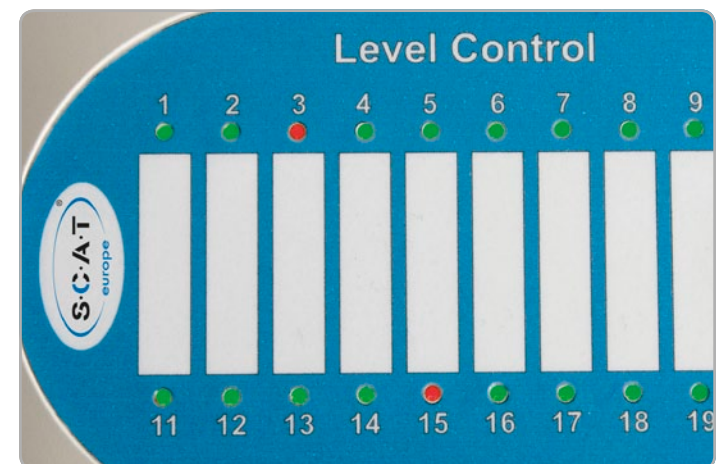
» Optical and acoustic signals:

Meaning of different light and audio signals:

- Green = Container connected and ready.
- Red + audio signal = critical fluid level.
- Yellow = Change battery of the sender.

» Operability and safety.

Switch the alarm of by pressing the ENTER button. The light of the corresponding container remains red until the container is discharged or the fill level falls below the critical height.



Technical data

Dimensions (WxDxH)	163 x 94 x 56 mm
Weight	ca. 150 g
Power supply	24V power supply
Current drain	max. 100 mA
Frequency	868-870 MHz
Transmission power	10 mW
Transmission type	Request/Acknowledge Protokoll Fehlerschutz durch CRC
Interfaces	Piezo-electric buzzer 100V/1A m~V Interface RS485-Modbus (e.g. for connection to external devices).
Display	20 Duo-LEDs

Ordering information

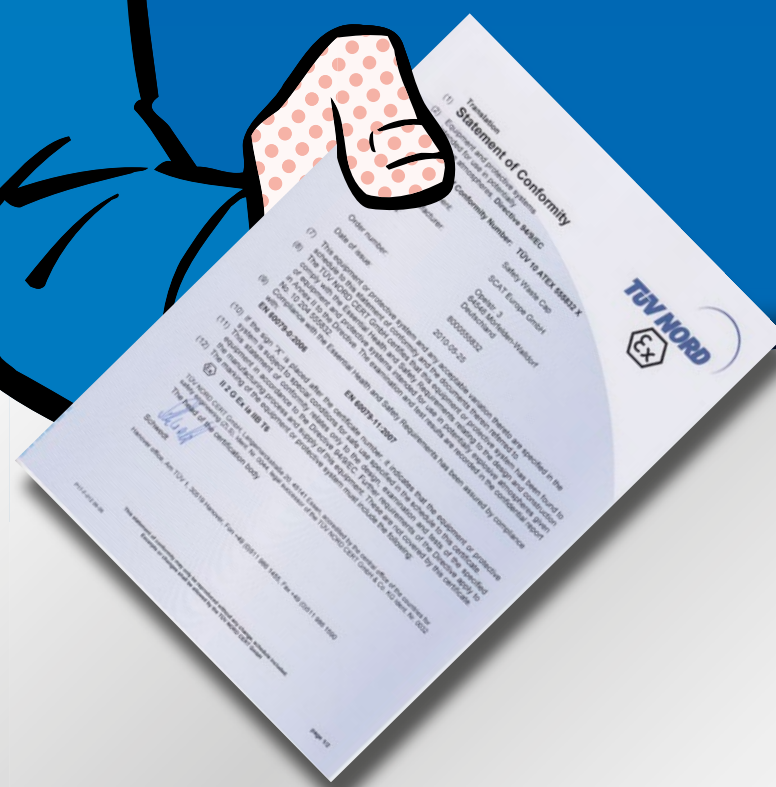
Part no.	Description
108 240	Wireless level control SET 1x Receiver FSS 1 (for 20 senders) 1x Power supply 230V (D/EU) for receiver 1x Sender FSG 1 with battery
108 242	Receiver FSS 1 with 220/230V mains adapter for Germany / EU
108 243	Receiver FSS 1 with 220/230V mains adapter for Great Britain / UK
108 244	Receiver FSS 1 with 220/230V mains adapter for USA

Safety Certificates

OFFICIALLY
APPROVED!

The S.C.A.T. components with the corresponding labels are approved for operation in explosion-protected areas and comply with the safety and health requirements of the following directives:

- EN 60079-0:2009** (General requirements)
- EN 60079-11:2007** (Intrinsic safety 'i')
- EN 60079-26:2004** (Equipment group II category 1G)



Translation

- (1) **Statement of Conformity**
 - (2) Equipment and protective systems intended for use in potentially explosive atmospheres, **Directive 94/9/EC**
 - (3) **Statement of Conformity Number:** TÜV 10 ATEX 555832 X
 - (4) for the equipment: Safety Waste Cap
 - (5) of the manufacturer: SCAT Europe GmbH
 - (6) Address: Opelstr. 3
64546 Mörfelden-Walldorf
Deutschland
- Order number: 8000555832



Translation

(1) EC-Type Examination Certificate

- (2) Equipment and protective systems intended for use in potentially explosive atmospheres - Directive 94/9/EC
- (3) No. of EC-Type Examination Certificate: **BVS 11 ATEX E 106**
- (4) Equipment: **Wireless signal transmitter type FSG1**
- (5) Manufacturer: **SCAT Europe GmbH**
- (6) Address: **64546 Mörfelden, Germany**
- (7) The design and construction of this equipment and any acceptable variation thereto are specified in the appendix to this type examination certificate.
- (8) The certification body of DEKRA EXAM GmbH, notified body no. 0158 in accordance with Article 9 of the Directive 94/9/EC of the European Parliament and the Council of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II to the Directive. The examination and test results are



The entire certificates are available from S.C.A.T. Europe or your official distributor. Please find the contact address on the backside cover of this brochure or at www.scat-europe.com.



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