

# Operating Instructions for Level Switch for Liquids

Model: RFS



## 1. Contents

1.	Contents	2
2.	Note	3
3.	Instrument Inspection	3
4.	Regulation Use	3
	Operating Principle	
6.	Use in Hazardous Areas	4
7.	Mechanical Connection	5
8.	Electrical Connection	6
9.	Technical Information	8
10.	. Order Codes	9
11.	. Dimensions	10
12.	. EU Declaration of Conformance	11
13.	. ATEX-Certificate	12

Manufactured and sold by:

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### 2. Note

Please read these operating instructions before unpacking and putting the unit into operation. Follow the instructions precisely as described herein.

The devices are only to be used, maintained and serviced by persons familiar with these operating instructions and in accordance with local regulations applying to Health & Safety and prevention of accidents.

When used in machines, the measuring unit should be used only when the machines fulfil the EC-machine guidelines.

### 3. Instrument Inspection

Instruments are inspected before shipping and sent out in perfect condition. Should damage to a device be visible, we recommend a thorough inspection of the delivery packaging. In case of damage, please inform your parcel service / forwarding agent immediately, since they are responsible for damages during transit.

#### Scope of delivery:

The standard delivery includes:

- Level Switch model: RFS
- Operating Instructions

### 4. Regulation Use

Model RFS devices are used for when monitoring liquid levels. The device should only be used with liquids that are compatible with the unit's materials of construction.

Level control is often accomplished with at least two level switches - one acting to sense the minimum level and the other for maximum level detection.

Any use of the Level Switch, model: RFS, which exceeds the manufacturer's specification, may invalidate its warranty. Therefore, any resulting damage is not the responsibility of the manufacturer. The user assumes all risk for such usage.

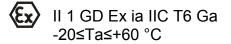
# 5. Operating Principle

The Level Switch RFS is designed for economical control of liquids in vessels. The following three versions are available: A device with plug connection and two devices with aluminium housing connection of which one is an ATEX-version for the use in environment with gas explosion hazards. The switch is remarkable for its maintenance-free design and small dimensions. The switch is mounted on the side of the vessel. A hinged stainless steel float with a magnet floats up and down through the liquid level. In the end position a potential-free reed contact is operated by the magnet. The switching function (N/O contact / N/C contact) is determined by the mounting position. The switching function is reserved by simply rotating the switch through 180°.

### 6. Use in Hazardous Areas

With the approval the Level Switch, model RFS, can be used within hazardous areas. Thereby the aluminium housing is applicable outside the process in zone of category 2D. The float is appropriate for the use within the process in zone of category 2D and 1D.

The approvals are as follows:



An additional intrinsically safe relay is required in environment with gas explosion hazards (KFA...and respectively KFD).

For a correct and professional potential equalization, the ground terminal on the housing of the RFS must be connected in applications in hazardous areas.

### 7. Mechanical Connection

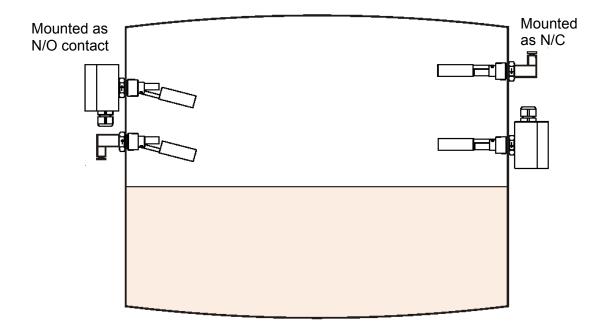
The Level Switch should be mounted so that the float can move freely over its entire path without hitting the walls, floor or roof of the container. Avoid fitting the switch where agitators or inlet valves could expose it to excessive turbulence. Make sure that the medium does not contain solids or ferrite particles, as they could collect on the float magnet and interfere with the switching operation. If the liquid does contain sediment or suspended matter, you must be sure they do not come into contact with the float system.

Mount the switch in a way that it is easily accessible for installation and maintenance.

- Make sure that the allowed max. operational pressure and service temperature for the device is not exceeded.
- The installation position must be horizontal.
- If possible, examine all the connection joints for proper sealing, just after mechanical installation.
- The engraved arrow on the hexagon must point up or down depending on the desired contact function. In any case the marked hexagon surface must always be mounted vertically.

#### **Mounting position**

Depending on the mounting position of the device, the contact function (N/O or N/C contact) of the level switch will be defined.



# 8. Electrical Connection

Caution! Make sure that the voltage values of your system correspond with the voltage values of the level switch.

- Make sure that the supply wires are de-energised.
- Connect your connection cable to the terminal of the aluminium housing or the plug of the RFS level switch.
- The level switch has a protective insulation; a separate protection wiring for the standard version is not necessary.
- For the RFS version for ATEX applications, the connection of the potential terminal is mandatory.
- An additional intrinsically safe relay is required in environment with gas explosion hazards (KFA...and respectively KFD).

#### Pin assignment for RFS Level Switch

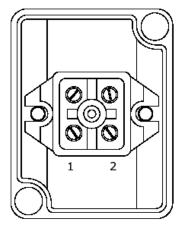
RFS-1200N4 and RFS-1201N4

There are only two connection terminals which can be connected by choice and which do not have any influence on the contact function (N/C / N/O). The contact function is defined by the mounting position of the instrument.

RFS-1200N4

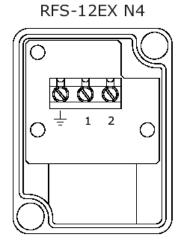


RFS-1201 N4



#### RFS-12EXN4

There are three connection terminals of which one terminal is clearly marked as a ground terminal. The two other terminals are connected in the same way as the standard devices RFS-1200N4 and RFS-1201N4 respectively.



After the connection of any other from your designated external instruments to the limit contact, the device is ready for operation.

# 9. Technical Information

Medium temperature:	- 40+120 °C
Ambient temperature:	-20+80 °C (RFS-1200 N4 and RFS-1201 N4)
	-20+ 60 °C (RFS-12Ex N4)
Operating pressure:	max. 5 bar
mounting position:	horizontal
Materials	
<ul> <li>Housing / plug:</li> </ul>	plastic with RFS-1200 N4 aluminium with RFS-1201 N4 and RFS-12Ex N4
• Float:	stainless steel 1.4301
Connection:	stainless steel 1.4301
Process connection:	1/2 NPT
Electr. connection:	for RFS-1200 N4: DIN plug
	for RFS-1201 and RFS-12Ex: terminals in the aluminium connection
Contacts:	N/O or N/C contact, depending on the mounting position of the device
Switching voltage:	max. 240 V <sub>AC</sub> / 300 V <sub>DC</sub> with RFS-1200 and RFS-1201
	max. 40 $V_{DC}$ with RFS-12Ex
Switching current:	max. 0.5 A
Switching capacity:	max. 15 VA with RFS-1200 and RFS-1201
	max. 4 VA with RFS-12Ex
Medium density:	>0.7 g/cm <sup>3</sup>
Contact resistance:	max. 150 kΩ
Protection:	IP65
ATEX marking for RFS-12Ex:	Ex II 1 GD Exia IIC T6 Ga -20°C ≤ Ta ≤ +60 °C

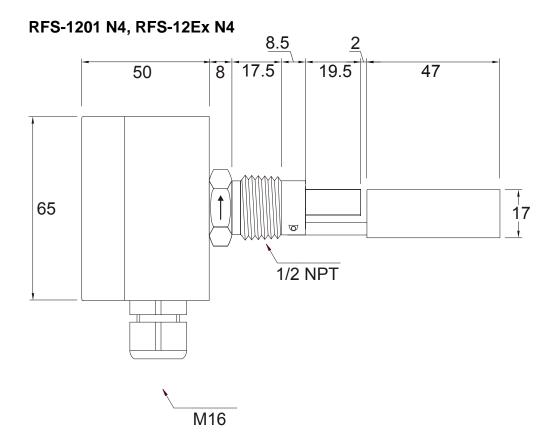
# 10. Order Codes

Example: RFS-1200 N4

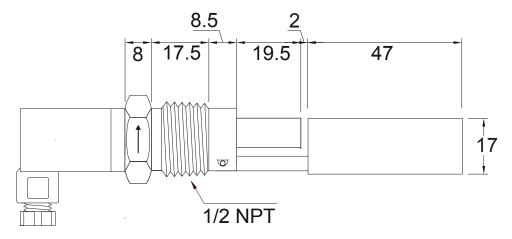
Model	Description
RFS-1200 N4	Standard version with plug connection
RFS-1201 N4	Standard version with housing connection (aluminium)
RFS-12Ex N4*	ATEX version for use in environments with explosion hazards

\*an additional relay is required for the use in environment with gas explosion hazards

# 11. Dimensions







## **12. EU Declaration of Conformance**

#### **DECLARACIÓN DE CONFORMIDAD EU**

EU DECLARATION OF CONFORMITY EU-KONFORMITÄTSERKLÄRUNG DÉCLARATION DE CONFORMITÉ DICHIARAZIONE DI CONFORMITÀ EU

#### KOBOLD MESURA SLU Avda. Conflent 68 nave 15 08915 Badalona (España)

#### Declara, bajo la propia responsabilidad, que el producto

Declares under our sole responsibility, that the product Erklärt in alleiniger Verantwortung, dass das Produkt Déclare sous sa seule responsabilité, que le produit Dichiara sotto la propia responsabilità, che il prodotto

Magnetic level switch RFS-12Ex N4

#### A los cuales se refiere esta declaración, son conformes a las siguiente Directivas Europeas:

To which this declaration relates is in conformity with the following European Directives: Mit folgenden Euroäischen Richtlinien Konform ist: À auxquels se réfère cette déclaration, ils sont conformes aux Directives Européennes suivant : A ai quali si riferisce questa dichiarazione, sono conformi alle direttive europee seguente:

#### EMC2014/30/EU LVD2014/35/EU ATEX2014/34/EU RoHS2011/65/EU

#### Normas armonizadas y documentos de la normativa aplicados:

Applied harmonised standards and normative documents: Angewandte harmonisierte Normen und normative Dokumente: Normes harmonisées et documents normatifs appliqués Norme armonizzate e documenti normativi applicati:

EN61010-1 :2011 EN60079-0:2012 (acc. EN60079-0:2013) EN61000-6-2 :2006 EN60079-11:2012 (acc. EN60079-11:2013)

#### Certificado de examen CE de tipo

EC-type examination certificate EG-baumusterprüfbescheinigung Attestation d´examen CE de type Certificazione per esame di tipo CE LOM06ATEX2054X

#### <u>Marcado</u>

Marking Kennzeichnung Inscription Marcatura

> X II 1 GD Ex ia IIC T6 Ga -20≤Ta≤+60⁰C

# Fabricado en: KOBOLD MESURA SLU Avda. Conflent 68 nave 15 08915 BADALONA (Spain)

Hergestellt in: Fabriqué dans: Fabbricato in:

#### Organismo notificado : LOM 0163

Notified organism Zertifizierungsstelle Organization annoncée Organismo informato

Badalona april. 2016 DT0497

#### Número notificación : LOM 05ATEX9070

Notification number Zertifikatsnummer Nombre notification Notifica di numero

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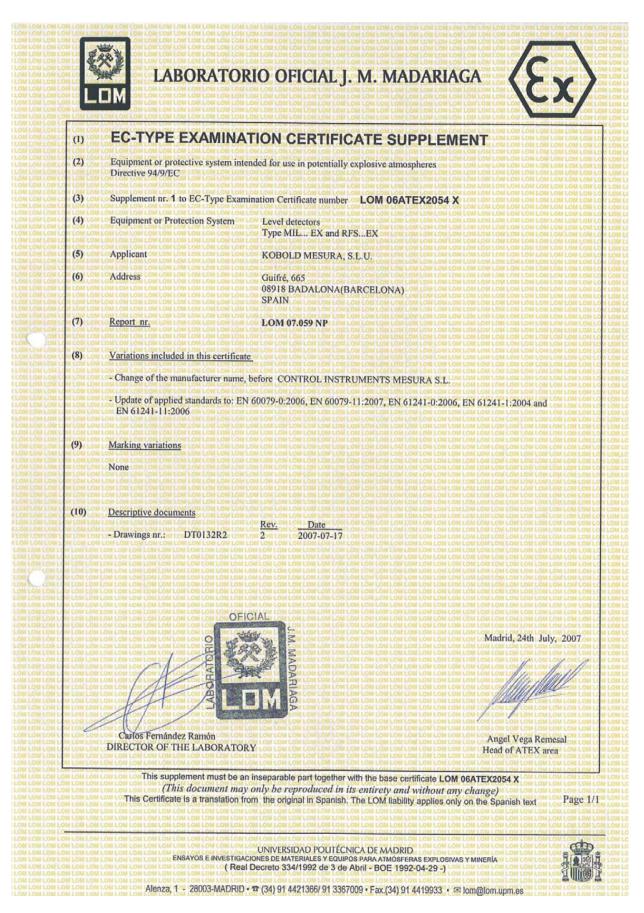
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# 13. ATEX-Certificate

(1)	EC-TYPE EXAMINA			
(2)	Equipment or protective system inte Directive 94/9/EC	nded for use in potentially explosive atmospheres		
(3)	EC-Type Examination Certificate nu	mber: LOM 06ATEX2054 X		
(4)	Equipment or Protection System	Level detectors Types MIL EX y RFSEX		
(5)	Applicant:	CONTROL INSTRUMENTS MESURA S.L.		
(6)	Address	Guifré, 665 1° 08912 BADALONA(BARCELONA) SPAIN		
(7)	This equipment or protective system documents therein referred to.	and any acceptable variation thereto is specified in the schedule to this certificate an		
(8)	of the European Parliament of 23 Ma the Essential Health and Safety Req	LOM), notified body number 0163 in accordance with Article 9 of the Directive 94/5 rch 1994, certifies that this equipment or protective system has been found to comply uirements relating to the design and construction of equipment and protective sys sive atmospheres, given in Annex II to the Directive.		
	The examination and test results are	recorded in confidential report nr. LOM 04.221 JP		
(9)	Compliance with the Essential Health and Safety Requirements has been assured by compliance with:         -       Standards         EN 60079-0:2004       EN 50020:2002         prEN 61241-0:2005       EN 61241-1:2004			
(10)	If the sign X is placed after the certi conditions for safe use specified in t	ficate number, it indicates that the equipment or protective system is subject to sp he schedule to this certificate.		
(11)	system in accordance with the Direct	ate relates only to the design and construction of this specified equipment or prote ive 94/9/EC. Further requirements of the Directive applies to the manufacture and su m. These are not covered by this certificate.		
(12)	The marking of the equipment or pr	otective system shall include the following:		
	(Ex) II 2/1 D Ex tD A21	IP65 T85 °C Ta:-20 /+ 60 °C		
	Ex II 1 GD Ex ia IIC T6 / E	x iaD 20 T85 Ta:-20 /+ 60 °C OFICIAL		
	AP,	OINOLVHOR MADARIA		
1	Carlos Fernández Ramón DIRECTOR OF THE LABORATO	Angel Vega Remesal		
LOWLOW		only be reproduced in its entirety and whithout any change) m the original in Spanish. The LOM liability applies only on the Spanish text		

of the following types:         MIL.100.EX y MIL.200.EX       Float device in tube as guide and "reed" switch activated by magnet         MIL.300.EX       float device of bascule type and micro-switch         RFS.12.EX       float device of bascule type and "reed" switch         When they are used in explosive gas ambient and/or combustible dust thus must be connected to a intrinsically safe circuit, a having the marking:         If 1 GD       Ex ia IIC T6 / Ex iaD 20 T85 (simultaneous or alternative)         Alternatively, then can be used as category 2 apparatus when connected to conventional circuits. In this case the head of 1 apparatus is foreseen to be installed on the outside of tanks or silos: this head is a category 2 apparatus. The sensor that	<ul> <li>(A3) Description of equipment or protective system</li> <li>Series of float switch magnetic level controllers which are mainly foreseen to be used in liquid tanks. The series is compose of the following types:</li> <li>MIL: 100.EX y MIL: 200.EX Float device in tube as guide and "reed" switch activated by magnet MIL: 300.EX float device of bascule type and micro-switch RFS.12.EX float device of bascule type and micro-switch marking in the marking:</li> <li>When they are used in explosive gas ambient and/or combustible dust thus must be connected to a intrinsically safe circuit, an having the marking:</li> <li>✓ II 1 GD EX is III CT6 / Ex is D 20 T85 (simultaneous or alternative)</li> <li>Alternatively, then can be used as category 2 apparatus when connected to conventional circuits. In this case the head of 1 apparatus is foreseen to be installed on the outside of tanks or silos; this head is a category 2 apparatus. The sensor that foreseen to be installed inside tanks or silos have got a category; this sensor is a simple mechanical device. The marking is 10 EX III 21 D Ex dD A21 IP6 T85 °C</li> <li>As category 1 devices, the intrinsically safe specific parameter is UI: 40 V.</li> <li>As category 1 devices, the intrinsically safe specific parameter is UI: 40 V.</li> <li>As category 1 devices, the intrinsically safe specific parameter is UI: 40 V.</li> <li>As category 1 devices, the intrinsically safe specific parameter is UI: 40 V.</li> <li>As category 1 devices, the intrinsically safe specific parameter is UI: 40 V.</li> <li>As category 1 devices, the intrinsical tanks or silos true up to 130 °C.</li> <li>(A4) Test report m: 04.221 JP</li> <li>(A5) Special conditions for safe use The parameter up to 130 °C.</li> </ul>	(A1)	
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(A6) Individual tests None None	(A6) Individual tests None	H LON CON H LON LON H LON LON	The specific marking will determine the ambient type and zone of use.
None	None	(A6)	
		LOW LOW	None
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(A2) ЕС-Ту	pe Examination Co	ertificate: : LOM 0	6ATEX20	54 X	I LON
(A7) <u>Essenti</u>	al Health and Safe	ty Requirements	NA LONE LONE LO NA LONE LONE LO NA LONE LONE LO NA LONE LONE LO NA LONE LONE LO	NELONE LONE LONE LONE LONE LONE LONE LON	ELOW LOW LOW LOW LOW LOW LOW LOW LOW LOW
Explosi	ion safe requireme	nts are covered by a	pplication of	of the standards indicated in	page 1/3 of this certificate.
(A8) Descrip	ntive documents:	OW LOW LOW LOW LOW LOW LOW LOW LOW LOW L	NELONELONELONELONELONELONELONELONELONELO	IN LON LON LON LON LON LON LON IN LON LON LON LON LON LON IN LON LON LON LON LON LON LON IN LON LON LON LON LON LON LON	R COM LON
- Descr	iption nr.	DT0126	<u>Rev.</u> 0	Date 2006-05-17	FLOW LOW LOW LOW LOW LOW LOW LOW LOW LOW
- Comp	oonent lists nr.:	DT0078 DT0079 DT0125 DT0133	0 0 0 0	2006-03-10 2006-03-10 2006-03-10 2006-03-21	LOW
- Drawi	ings n°:	PM0347R0 PM0383R0 PM0385R0 PM0391R0 PM0425R0 PM0444R0 PM0444R0	0 0 0 0 0 0	1999-12-10 2004-11-15 2004-11-15 2004-11-15 2005-10-07 2006-03-10 2006-03-21	
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	NELON LON LON LON LON LON L IN LON LON LON LON LON L IN LON LON LON LON LON L	UNITED A LON	M LON LON LON LO M LON LON LON LO M LON LON LON LO	IN LON LON LON LON LON LON LON LON LON LO	
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	IN LOW LOW LOW LOW L	OM LOW LOW LOW LOW LO		HELON LON LON LON LON LON LON	ut any change)



(1)	EC-TYPE EXAMINATION CERT	IFICATE SUPPLEMENT
(2)	Equipment or protective system intended for use in pote Directive 94/9/EC	ntially explosive atmospheres
(3)	Supplement nr. 2 to EC-Type Examination Certificate	LOM 06ATEX2054 X
(4)	Equipment or protective system	Level detectors Types MIL EX, RFSEX y M E
(5)	M LON	KOBOLD MESURA, S.L.U.
(6)		Guifré, 665 08918 BADALONA(BARCELONA SPAIN
(7)	Test report in the test for the test for test fo	LOM 12.256 KP
(8)	Variations included in this certificate	
A LOM LO A LOM LO	wow to tube respectively. May include junction box or dire	E" with intrinsically safe type of protection, with straight or angled
(9)	Changes in marking All variants used in intrinsically safe circuits	Variant MIL.300.EX used as protection by enclosure
4 LOM LO 4 LOM LO	II 1GD Ex ia IIC T6 Ga Ex ia IIC T85 ℃ Da -20 ℃ ≤ Ta ≤ +60 ℃	type of protection II 2D Ex t IIIC T85 °C Db $-20 °C \le Ta \le +60 °C$
(10)	Changes in the special conditions for a safe use	EDM LOW LOW LOW COW LOW LOW LOW LOW LOW LOW LOW LOW LOW L
A LOM LO A LOM LO A LOM LO A LOM LO A LOM LO	It is added: The temperature class or surface temperature refersion shall be determined on the basis of actual temperature refersion of temperatu	rs only to equipment operating at room temperature. In class facility ire of the process.
(11)	Descriptive documents       Rev.         - Descriptions nr.:       DT0494       -         DT0495       -         - Drawings nr.:       DT0496       -	Date
	Carlos Fernández Ramón DIRECTOR OF THE LABORATORY	Angel Vega Remesal Head of the ATEX
A LON LO	This supplement must be an inseparable part tog This Certificate is a translation from the original in S	ether with the base certificate LOM 06ATEX2054 X panish. The LOM liability applies only on the Spanish text

(1)	EC-TYPE EXAMIN	ATION CE	RTIFICATE SUPP	PLEMENT	THE LOW LOW LOW			
(2)	Equipment or protective system i	ntended for use in	potentially explosive atmosphe	rres tow tow tow tow tow				
	Directive 94/9/EC		LON LON LON LON LON LON LON LON					
(3)	Supplement nr. 3 to EC-Type Ex			EX2054 X				
(4)	Equipment or protection system	Level detect Types MIL.	tors EX, RFSEX, ME0 y MM	LOW LOW LOW LOW LOW LOW LOW				
(5)	Manufacturer	Kobold Me	sura S.L.U.					
6)	Address		lent 68, nave 15 Ilona (Barcelona)					
(7)	Test report nr.:	LOM 14.12	20 CP					
(8)	Variations included in this certifi	cate						
	1. To include a new series call	ed MME						
	MME	at material						
	I LON	cess connection / I	LOW LOW LOW LOW LOW LOW LO					
	I LOW LOW LOW LOW LOW LOW L	ON LOW LOW LOW	TOM TOM TOM TOM TOM TOW TO					
	Out	mut / transmitter						
	Output / transmitter							
	This new series is manufact	CON LONG LONG LONG	cally safe type of protection. It	is based on a chain resistar	nces and conta			
	This new series is manufact type "reed" driven by the ma	tured with intrinsi	cally safe type of protection. It float, with potentiometric mea	is based on a chain resistar surement.	nces and conta			
	type "reed" driven by the ma	tured with intrinsi- agnetic field of the rect, or using the	e float, with potentiometric mea	is based on a chain resistar surement. 0 mA, HART or PROFIBU:	ices and conta S / FIELDBU			
	type "reed" driven by the ma	tured with intrinsi- agnetic field of the rect, or using the	e float, with potentiometric mea	is based on a chain resistar surement. 0 mA, HART or PROFIBU:	ices and conta S / FIELDBU			
	type "reed" driven by the ma	tured with intrinsi- agnetic field of the rect, or using the fied transmitter mo	float, with potentiometric mea loop signal converters for 4-2 xdules. Certificate	is based on a chain resistar surement. 0 mA, HART or PROFIBU: Manufacturer	nces and conta S / FIELDBU			
	type "reed" driven by the ma The output signal can be di intrinsically safe using certi	tured with intrinsi agnetic field of the rect, or using the fied transmitter mo Type 5333D	float, with potentiometric mea loop signal converters for 4-2 xdules. Certificate KEMA 03ATEX1535	surement. 0 mA, HART or PROFIBU: Manufacturer	ices and conta			
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	type "reed" driven by the ma The output signal can be di intrinsically safe using certi Used transmitters	tured with intrinsi agnetic field of the rect, or using the fied transmitter mo <u>Type</u> 5333D 5335D, 5337D 5350B	e float, with potentiometric mea loop signal converters for 4-2 xdules. Certificate KEMA 03ATEX1535 KEMA 03ATEX1537 KEMA 02ATEX1318	surement. 0 mA, HART or PROFIBU: Manufacturer PR electronics A/S	tes and conta			
	type "reed" driven by the ma The output signal can be di intrinsically safe using certif Used transmitters Also it cans include a displa	tured with intrinsi agnetic field of the rect, or using the fied transmitter mo <u>Type</u> 5335D 5335D, 5337D 5350B y type CombiView	e float, with potentiometric mea loop signal converters for 4-2 xdules. Certificate KEMA 03ATEX1535 KEMA 03ATEX1537 KEMA 02ATEX1318 v DFON 5XX from Baumer A/	surement. 0 mA, HART or PROFIBU: Manufacturer PR electronics A/S S with certificate TUV 13A1				
	type "reed" driven by the ma The output signal can be di intrinsically safe using certif Used transmitters Also it cans include a displa The input parameters of the	tured with intrinsi agnetic field of the rect, or using the fied transmitter mo <u>Type</u> 5333D 5335D, 5337D 5350B y type CombiView e intrinsically safe	e float, with potentiometric mea loop signal converters for 4-2 xdules. Certificate KEMA 03ATEX1535 KEMA 03ATEX1537 KEMA 02ATEX1318	surement. 0 mA, HART or PROFIBU: Manufacturer PR electronics A/S S with certificate TUV 13A1 e same as those indicated ir				
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	<ul> <li>type "reed" driven by the mathematically safe using certification of the signal can be displayed to the signal can</li></ul>	tured with intrinsi agnetic field of the rect, or using the fied transmitter mo Type 5333D 5333D 5330B y type CombiView a intrinsically safe th direct connectic group II for gases andards EN 60079 6 Ga ≤ +60 °C	e float, with potentiometric mea loop signal converters for 4-2 xdules. Certificate KEMA 03ATEX1535 KEMA 03ATEX1537 KEMA 02ATEX1318 v DFON 5XX from Baumer A/ e type of protection will be tho in the input parameter is <i>Pi</i> : 1.2 and marking is updated for al -0:2012 and EN 60079-11;2013	surement. 0 mA, HART or PROFIBU: Manufacturer PR electronics A/S S with certificate TUV 13A1 e same as those indicated ir W 1 the variants MIL EX, RI 2	1 the transmit			
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	<ul> <li>type "reed" driven by the mathematically safe using certificate is a translation of the standard sector of the standard sector of the sector of th</li></ul>	tured with intrinsi agnetic field of the rect, or using the fied transmitter mo $\overline{Type}$ 5333D 5335D, 5337D 5350B y type CombiView e intrinsically safe th direct connection group II for gases andards EN 60079 6 Ga $\leq +60 \ ^{\circ}$ C	float, with potentiometric mea loop signal converters for 4-2 xules. Certificate KEMA 03ATEX1535 KEMA 03ATEX1537 KEMA 02ATEX1318 v DFON 5XX from Baumer A/ e type of protection will be the n the input parameter is <i>Pi</i> . 1.2 and marking is updated for al -0:2012 and EN 60079-11;2013 -0:2012 and EN 60079-11;2013 rt together with the base certified In Spanish. The LOM liability a	surement. 0 mA, HART or PROFIBU: Manufacturer PR electronics A/S S with certificate TUV 13AT e same as those indicated ir W 1 the variants MIL EX, RI 2 cate LOM 06ATEX2054 X pplies only on the Spanish te	n the transmitt PSEX, MI			
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ON LON LO	Supplement nr. 3 to EC-Ty	pe Examination	Certificate n	umber LOI	M 06ATEX2054 X
(10)	Changes in the special cond	ditions for a safe	use	LONE LONE LONE LONE LONE LONE LONE LONE LONE LONE LONE LONE LONE LONE LONE LONE	H LOW LOW LOW LOW COM LOW LOW LOW LOW LOW I LINE LOW
UNE LONE LÜ ONE LONE LÜ ONE LONE LÜ ONE LONE LÜ ONE LONE LÜ	IN LOSS LOSS LOSS LOSS LOSS LOSS	eads made of all		LONE LONE LONE LON	e sensor / float made of plastic materials. to locations where the risk of ignition due to
(11)	Descriptive documents - Technical description nº:	DT0602	<u>Rev.</u>	<u>Date</u> 2014-05	
044 LONE LO 044 LONE LO 044 LONE LO 044 LONE LO 044 LONE LO 044 LONE LO	- Drawings nr.:	DT0596 DT0598 PE0234 DT0615	0	2013-12 2014-03 2014-02-11 2014-04-11	
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CHI LON LO CHI LON LO CHI LON LO					Carlos Fernández Ramón Responsible of the Certification Committee
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