



1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

2 Equipment **MK 1A WINDER Open Sampling Kit**
WINDER Mechanical Sampling Gauge Range - MK7, 10, 12 and 14 - closed sampling kit

3 Manufacturer **UK Sampling Gauges Limited**

4 Address **Building 1, Roman Bank,
Bourne, Lincolnshire, PE10 9LQ,
United Kingdom**

5 The equipment is specified in the description of this certificate and the documents to which it refers.

6 CML B.V., Chamber of Commerce No 6738671, Koopvaardijweg 32, 4906CV Oosterhout The Netherlands, Notified Body Number 2776, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 12.

7 If an 'X' suffix appears after the certificate number, it indicates that the equipment is subject to conditions of safe use (affecting correct installation or safe use). These are specified in Section 14.

8 This EU Type Examination certificate relates only to the design and construction of the specified equipment or component. Further requirements of Directive 2014/34/EU Article 13 apply to the manufacture of the equipment or component and are separately certified.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the confidential report, has been demonstrated through compliance with the following documents:

EN ISO 80079-36:2016 EN ISO 80079-37:2016

10 The equipment shall be marked with the following:

 II 1 G

Ex h IIC T3 Ga

Ta= -20°C to +70°C



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11 Description

MK 1A WINDER Open Sampling Kit

The MK 1A WINDER Open Sampling Kit is specifically designed to extract samples from oil tanks. They comprise a range of sampler devices that are listed in Table 1 below.

The equipment comprises three principal components that are fitted together to form a single assembly as follows:

- The Reel and Hub assembly, containing the reel hub and reel winding mechanism, a wire guide arm mechanism and stainless steel multi-strand wire, a supporting leg (strut), an earth grounding cable, the counter mechanism and a hook to which the associated sampler devices can be attached.
- The cable wiper assembly, which is fitted to the wire guide arm mechanism, and supports the wire wiper body by means of two support arms that are mounted onto the wiper body. The cable wiper assembly includes two pairs of brushes, which are mounted into stainless steel backings that in turn are affixed to the cable wiper body.
- A stainless steel or brass sampler tube or alternatively for the ALSBV 502 and ALSBV 1002 a stainless steel frame that houses a glass bottle, which is fitted with a venting tube, probe and adjustable float valve mechanism.

Table 1

Product Name	Sampler Designation
MK 1A WINDER Open Sampling Kit	ALBTMS 382
	ALBTMS 501
	ALBTMS 502
	ALBTMS 1001
	ALBTMS 1002
	BTMS 101
	BTMS 102
	BTMS 301
	BTMS 302
	BTMS 1002
	ALS 501 (Brass)
	ALS 502 (Stainless Steel)
	ALS 542
	ALS 1001 (Brass)
	ALS 1002 (Stainless Steel)
	ALS 1501 (Brass)
	ALS 1502 (Stainless Steel)
	ALSBV 502
	ALSBV 1002



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WINDER Mechanical Sampling Gauge Range - MK7, 10, 12 and 14 - Closed Sampling Kit

The WINDER Mechanical Sampling Gauge Range which includes the MK7, MK10, MK12 and MK14 models is a range of mechanical sampler devices designed specifically for use in association with vapour control valves on oil tankers.

The equipment comprises two principal components:

- The reel housing, containing the winding reel, the steel tape and a hook to which the associated samplers can be attached.
- The main tube supports the reel housing and encloses the sampler. The main tube of the MK7, MK10, MK12 and MK14 models comes with an integral flange (or a coupler as required) that enables it to be fitted directly, and if required permanently, to a suitably sized flange.

These two components are sealed together to form an assembly, which is fitted securely to an associated vapour control valve. The reel housing can be lifted vertically on its support strut, giving access to the sampler, while the winder remains in position on the vapour control valve. The support strut has an automatic locking mechanism built-in so that the reel housing stays in the open position while samplers and/or bottles are changed over.

The Winder MK7, MK10, MK12 and MK14 models comprise a range of associated samplers and ancillary products, which are listed in Table-2 below. The Winder MK10, MK12 and MK14 models also incorporate a hand-operated vacuum pump to reduce the internal pressure before opening the winder.

Table 2

Model Designation	Sampler Designation	Ancillary Product Designation
MK7	ALS 542 Any-level (Spot) Sampler BTMS 302 Bottom Sampler RNS 542 Running Sampler	SR2 Sounding Rod WA1 Adaptor WA2 Adaptor WA3 Adaptor WA4 Adaptor
MK10	ALSB-V 502 Sampler ALSB-V 1002 "Dijkstra" Sampler ALS 1089 Any-level Sampler RNS 1076 Running Sampler BTMS 1002 Sampler	SR2 Sounding Rod WFR Water Finding Rule Hand-operated vacuum pump
MK12	ALS 1089 Any-level Sampler RNS 1076 Running Sampler BTMS 1002 Sampler	SR2 Sounding Rod WFR Water Finding Rule Hand-operated vacuum pump
MK14	ALSB-V 1002 "Dijkstra" Sampler BTMS 1002 Sampler BTMS 302 Bottom Sampler	SR2 Sounding Rod WFR Water Finding Rule Hand-operated vacuum pump



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12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	01 Nov 2021	R14238A/00	Issue of Prime Certificate

Note: Drawings that describe the equipment or component are listed in the Annex.

13 Conditions of Manufacture

None

14 Specific Conditions of Use (Special Conditions)

The following conditions relate to safe installation and/or use of the equipment.

- i. An earth lead is permanently attached to the metal body of the equipment. This lead shall be clamped to a suitable earth point before operating the equipment.