



EU-type examination certificate

Number **T10058** revision 16
Project number 1901468
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Issued by NMI Certin B.V.,
designated and notified by the Netherlands to perform tasks with respect to
conformity modules mentioned in article 17 of Directive 2014/32/EU, after
having established that the Measuring instrument meets the applicable
requirements of Directive 2014/32/EU, to:

Manufacturer Gilbarco GmbH
Ferdinand-Henze-Straße 9
D-33154 Salzkotten
Germany

Measuring instrument **A measuring system for AdBlue**

Type : SK700 AdBlue; ARAL AdBlue;
SK700-2 AdBlue; SK700-2/Frontier Eu

Flow rate range ($Q_{min} - Q_{max}$) : See § 1.2 of the description.

Minimum measured quantity : See § 1.2 of the description.

Accuracy class : 0,5

Environment classes : M2 / E1

Temperature range ambient : -25 °C / +55 °C

Temperature range liquid : -10 °C / +50 °C

Destined for the measurement of : AdBlue (Aqueous liquid)

Further properties are described in the annexes:
- Description T10058 revision 16;
- Documentation folder T10058-5.

Valid until 5 April 2027

Remarks

- This revision replaces the earlier versions, except for its documentation folder
- The AdBlue measuring system may be combined with one or more LPG- and/or gasoline or gasoil dispensers, which make use of the same or separate calculating/indicating device(s).
- The measurement system for AdBlue may be combined with the self service devices as mentioned in in § 1.1 of the description.

Issuing Authority

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1 General information about the measuring system

All properties of the measuring system, whether mentioned or not, shall not be in conflict with the legislation.

1.1 Essential parts

Producer	Type	Evaluation Certificate	Remarks
Measurement transducer			
Vemm Tec	WGP 15.6	-	See description in the OIML R117 Test Report no. Z5.241/92.42
Endress + Hauser	LPGmass DN8 DN15	TC7286	-
Krohne	Optiflux 5300C DN15	TC7161	-
Krohne	BATCHFLUX 3200 C DN15	TC10836	-
Electronic calculating/indicating device			
Gilbarco GmbH & Co. KG	EC2000	TC7081	When added to fuel dispensers type Aral
Gilbarco GmbH	Sandpiper / Sandpiper-2 / Sandpiper- Apollo	TC7123	Variations to Sandpiper calculators detailed in TC7123
Electronic calculating/converting device			
Kraus	Temperature compensating device	TC7167	Subsystem used for converting incoming impulses to representative volume, connected with the Sandpiper calculator

The fuel dispenser may be connected to a Self Service Device which is described in

- any Parts Certificate or
 - one of the Evaluation Certificates as mentioned in the table below,
- under the condition that the applied communication protocol is stated in the Parts Certificates or Evaluation Certificates of both the applied electronic calculating/indicating device and self-service device:



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Producer	Type	Evaluation Certificate	Remarks
Self-service device			
Tokheim	Fuel-POS	TC7346	-
Gilbarco srl	Passport Europe; PBox	TC7581	-
Hectronic GmbH	TA2331	GB-1286	Evaluation (Test) Certificate of the National Weights And Measures Laboratory (NWML)
Hectronic GmbH	Hecstar and Hecfleet NT	A0445/4516/2008 or A0445/2055/2016	Evaluation Certificate (Prüfschein) Bundesamt für Eich- und Vermessungswesen (BEV)
Hectronic GmbH	Heconomy	A0445/2057/2015	Evaluation Certificate (Prüfschein) Bundesamt für Eich- und Vermessungswesen (BEV)
Torex	Lucas 9730 Site Controller and Lucas EPOS	GB-1327	Parts Certificate of the National Weights And Measures Laboratory (NWML)
Scheidt & Bachmann GmbH	OPT230 Standalone/2	TC7596	Evaluation certificate of the NMI
ALX Technologies	Europole	LNE-17492	Evaluation Certificate (Certificat d'évaluation) Laboratoire national de métrologie et d'essais (LNE)
ALX Technologies	Europile	LNE-28279	Evaluation Certificate (Certificat d'évaluation) Laboratoire national de métrologie et d'essais (LNE)
Orpak Systems Ltd.	Systor POS and OrPT OPT	GB-1381	Evaluation certificate of NWML National Weights & Measures Laboratory of the UK
Scheidt und Bachmann GmbH	TMS 30	TC7596	Evaluation certificate of the NMI
Wincor Nixdorf	NAMOS	DE-08-MI005-PTB004	Evaluation certificate of Physikalisch-Technische Bundesanstalt (PTB) Germany

Producer	Type	Evaluation Certificate	Remarks
BP Europe SE	RAP Sustain	TC7657	Evaluation certificate of the NMI
Lafon	ELYS PoS	LNE-22484 rév.0	Evaluation certificate of LNE
Dresser Wayne AB	IxPay	SP107023	Evaluation certificate of SP

1.2 Essential characteristics

In addition to the characteristics as is stated on page 1 of this EU-type examination certificate T10058 the following characteristics apply:

- $Q_{min} - Q_{max}$
Within the flow range specified on the EU-type examination certificate no. T10058 a minimum and maximum flow rate can be chosen under the condition that the ratio is at least 1 : 10 resp. 1 : 4 with respect to the Evaluation Certificates and Test report as mentioned in the table above (see under 1.1 Essential parts).
- Minimum Measured Quantity (MMQ): 2 or 5 L.

1.3 Essential shapes

1.3.1 Configuration

- Several installations for measuring AdBlue can be connected to one calculating/indicating device;
- The installation for measuring AdBlue is comprised of a submerge pump or barrel pump connected to one measurement transducer. A safeguard is fitted to prevent the pump running dry;
- The installation for measuring AdBlue can be combined with a gasoil module and/or a gasoline module and/or LPG module;
- In case two delivery outlets are permanently installed and operate simultaneously or alternately, it shall be provided so that any diversion of flow to other than the intended receiving receptacle(s) cannot be readily accomplished or is readily apparent.

1.3.2 Inscriptions

* Nameplate

The following information is clearly visible on the nameplate:

- CE marking including the supplementary metrological marking (M + last 2 digits of the year in which the instrument has been put into use);
- Notified Body identification number, following the supplementary metrological marking;
- EU-type examination certificate number;
- Manufacturer's name, registered trade name or registered trade mark;



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- Manufacturer's postal address;
- Type designation;
- Year of manufacture and serial number;
- Accuracy class;
- Minimum and maximum flow rate;
- Maximum pressure;
- Name(s) or nature(s) of the product(s) to be measured;
- Mechanical and electromagnetic environment class;
- Ambient temperature range;
- Liquid temperature range.

An example of the nameplate is shown in the belonging Documentation folder.

Remarks:

The nameplate must be clearly visible without removing the covers.

Furthermore the following inscriptions are applied:

- The inscription "minimum measured quantity ... L" on the indicator face of the calculating/indicating device (on both sides if applicable);
 - The inscriptions on the measurement transducer as mentioned in the appertaining Evaluation Certificate;
 - The inscriptions on the electronic calculating/indicating device as mentioned in the appertaining Evaluation Certificate;
 - The inscriptions on the self-service device as mentioned in the appertaining Evaluation Certificate or Parts Certificate;
- An inscription on the display device's cover.

This measuring system was previously placed on the market under the manufacture name "Gilbarco GmbH & Co.KG".

1.4 Conditional parts

The following "slave" Outdoor Payment Terminal (part of a self service device) may be built in the dispenser and connected to the self service device, provided that the used protocol is stated in the Evaluation Certificate or Parts Certificate of the self service device and the Evaluation Certificate or Parts Certificate of the Outdoor Payment Terminal:

Producer	Type	Evaluation Certificate	Remarks
Outdoor payment terminal			
Gilbarco Autotank AB	NC3/NP3 L/P/C	127612	Evaluation certificate of SP Technical Research Institute of Sweden
Gilbarco S.r.l.	NC3/NP3 L/P/C	127614	Evaluation certificate of SP



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Producer	Type	Evaluation Certificate	Remarks
Gilbarco Autotank AB	NP-M3 (OPT) , NC-M3 CRIP (GS/SK), NP3-M3, NC3L-M3 (GS/SK) NP3-M4, NC3P-M4 NC3L-M4 (GS/SK)	FIT.10.A.ER.01 FIT.10.A.01	Evaluation certificate of Inspecta Tarkastus Oy of Finland

- Submerge pump or barrel pump;
- Non-return valve
The non-return valve is fitted upstream of the measurement transducer;
- Solenoid valve (optional)
The solenoid valve is fitted downstream of the measurement transducer. A hose may be fitted with a solenoid valve;
- Filter;
- Heating element (optional)
The AdBlue installation is equipped with a heating element which prevents the temperature in the housing of dropping below the freezing point.

1.5 Non essential parts

- The housing of the installation;
- Hoses;
- Nozzles.

2 Seals

The following items are sealed:

- the nameplate with the frame of the measuring system; *)
- the measurement transducer as mentioned in the applicable Evaluation Certificate;
- the electronic calculating / indicating device as mentioned in the applicable Evaluation Certificate;
- the mechanical connection between the measurement transducer and the pulser;
- the connection between the pulser and the calculating / indicating device against manipulation.
- The Self service Device as mentioned in the applicable Parts Certificate or Evaluation Certificate (if applicable).

In case the identification of the components is not stated on the Data sheet:

- the measurement transducer against removal;
- the calculating / indicating device against removal;

An example of those seals, which are not mentioned in the applicable Evaluation Certificates of the measurement transducer or calculating / indicating device, is given in the belonging Documentation folder.

*) Removal without destroying the nameplate shall not be possible; otherwise the nameplate shall be sealed to the frame.