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| **OIML Member State** | **OIML Certificate No.** |
|---|---|
| Czech Republic | R117/2019-A-CZ1-26.02 |

# OIML CERTIFICATE ISSUED UNDER SCHEME A

**OIML Issuing Authority**

Name: **Czech Metrology Institute**
Address: Okružní 31
638 00 Brno
Czech Republic
Person responsible: Jan Kalandra

**Applicant**

MEPSAN Petrol Cihazlari Sanayi Ticaret A.S.
3. Organize Sanayi Bolgesi
T. Ziyaeddin Caddesi No. 24
42300 Konya
Turkey

**Manufacturer**

MEPSAN Petrol Cihazlari Sanayi Ticaret A.S.
3. Organize Sanayi Bolgesi
T. Ziyaeddin Caddesi No. 24
42300 Konya
Turkey

**Identification of the certified type** *(the detailed characteristics will be defined in the additional pages)*

**Fuel and AdBlue dispenser**
**type: Smartline, Cosmic and MEPBLUE**

This OIML Certificate attests the conformity of the above identified type (represented by the sample(s) identified in the OIML type evaluation report) with the requirements of the following Recommendation of the International Organization of Legal Metrology (OIML):

**OIML R 117, Edition: 2019**

This OIML Certificate relates only to metrological and technical characteristics of the type of measuring instrument covered by the relevant OIML Recommendation identified above.

This OIML Certificate does not bestow any form of legal international approval.

The conformity was established by the results of tests and examinations provided in the associated OIML type evaluation report and test reports:

Evaluation Report: 0511-ER-F046-25

Test reports: 6015-PT-P0016-26, 6011-PT-SW011-26, 8551-PT-E0057-26 issued by Czech Metrology Institute

The technical documentation relating to the identified type is contained in documentation file:

**OIML Certificate History**

| Revision No. | Date | Description of the modification |
|---|---|---|
| | 25 June 2026 | |
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**The OIML Issuing Authority**
RNDr. Pavel Klenovský
Director of Certification Body

Date: 25 June 2026

Český metrologický institut
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*Important note:* Apart from the mention of the Certificate's reference number and the name of the OIML Member State in which the Certificate is issued, partial quotation of the Certificate and of the associated OIML type evaluation report(s) is not permitted, although either may be reproduced in full.

**Measuring device description**

The fuel dispensers and AdBlue dispensers of the type series Smartline, Cosmic, and MEPBLUE are produced in several different versions, which are distinguished by additional markings connected to the type designation. They differ only in the appearance of their housing and consist of the same components.

All the above-mentioned types may be either fuel dispensers or AdBlue dispensers or their combination.

The dispensers are designed for measurement of quantities of liquids as a legal measuring. Fuel dispensers are used for the refueling of motor vehicles, small boats and small aircraft. AdBlue dispensers are used for the refilling of a separate tank of motor vehicles with reduction of $NO_x$ in exhaust gases of diesel engines SCR-technology (Selective Catalytic Reduction).

The dispensers are produced under the trademarks MEPSAN or MITES.

Fuel dispensers consist of a pumping unit with gas elimination device (optionally including ATC unit), positive displacement measurement sensor, electronic pulse transmitter including calculating unit, indicating unit, keypad, solenoid (electromagnetic) valve, and hose with dispensing nozzle. These fuel dispensers can be equipped with a sight glass, vapour recovery system, electromechanical totalizing indicating device and pre-setting device optionally.

AdBlue dispensers consist of the same component as fuel dispensers. Flow rate of the AdBlue dispenser is limited up to 50 L/min.

There are three types of fuel measuring systems:

- Standard with $Q_{max}$ 50 L/min, which contains one pumping unit with $Q_{max}$ 50 L/min and one measurement transducer. One pumping unit can supply two measuring systems which can operate simultaneously (Two measuring systems for the same product on each side of fuel dispenser).
- High speed with $Q_{max}$ 90 L/min, which varies just in using pumping unit with $Q_{max}$ 90 L/min and
- Ultra high-speed with $Q_{max}$ 130 L/min, which contains two pumping units with $Q_{max}$ 90 L/min and two measurement transducers mounting in parallel. (The fuel is dispensed via one nozzle only).

The dispensers can be made as a pressure system in centrally pumped system or with external submersible pump. In that case the installation of a gas separator is NOT mandatory. If it is not intended to install a gas separator, the design of installation has to ensure that there is no risk of air intake or gas release and following requirements must be fulfilled:

- To secure automatically the minimum level in the storage tank, a level detection system shall be installed.
- Each delivery shall be delayed until the submerged pump has been running for at least 3 seconds.
- The pipelines between the pump unit and the dispenser are installed with a positive slope of at least 1 %. There shall be no significant portion without slope.
- At least one non-return valve shall be installed in the system upstream of each measurement transducer.

The dispensers could be connected into independent Point of Sale, Paying terminal or Fiscal memory device which do not influence metrology parameters of measuring system.

**Main components**

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|---|---|
| Pumping unit with gas separator | MLB PUMP |
| Measurement transducer | MLB Meter for fuel dispenser,<br>MLB Meter(anodized) for AdBlue dispenser |
| Pulse transmitter and calculating unit | LUMINA – Pulser Unit |
| Indicating device | LUMINA – Display Unit |
| ATC unit (optionally) | MEP-SENS T |

**Basic technical and metrological data**

| Pattern designation | Smartline / Cosmic / MEPBLUE | | |
|---|---|---|---|
| Max. flow rate $Q_{max}$ [L/min] | 50 | 90 | 130 |
| Min. flow rate $Q_{min}$ [L/min] | 5 | 5 | 10 |
| Min. measured quantity MMQ [L] | 2 | 5 | 10 |
| Accuracy class | 0.5 | | |
| Type of liquids | Gasoline, kerosene, diesel and AdBlue (32.5 % aqueous urea solution) | | |
| Liquid temperature range [°C] | -20 to +50 for fuels<br>-5 to 50 for AdBlue | | |
| Ambient temperature range [°C] | -25 to +55 | | |
| Maximum pressure [MPa] | 0.25<br>0.35 for AdBlue and $Q_{max}$ 130 L/min only | | |
| Minimum pressure [MPa] | 0.15 | | |
| Environmental classes | M1, E1, H3 | | |
| Measurement unit | Volume [L] | | |
| Type of display: | Electronic | | |
| Scale interval of the indication [L] | 0.01 | | |
| Power supply | 85 - 264 V; Max. 750 W; 50 / 60 Hz | | |
| Maximum unit price (no. of digits) | 9999 9999 (8) | | |
| Maximum volume (no. of digits) | 99 9999 9999 (10) | | |
| Maximum price to pay (no. of digits): | 99 9999 9999 (10) | | |
| POS interface | RS-485 | | |
| Approved software versions | Pulser: KVS v1.0.0<br>Display: DSP v1.0.1<br>ATC: v1.0.0 | | |
| Checksum (MD5 last 4 characters) | Pulser: C801<br>Display: 59CC<br>ATC: A434 | | |