



Český metrologický institut

Parts Certificate

Number: ZR 141/17 – 0143

Issued by: **Český metrologický institut**
Okružní 31
638 00 Brno
Česká republika

In accordance with: **WELMEC Guide 8.8, Issue 1 “General and Administrative Aspects of the Voluntary System of Modular Evaluation of Measuring instruments under the MID.**
OIML R117:2007

Issued to: **ELTOMATIC A/S**
Fabriksvej 6
DK-9490 Pandrup
Denmark

In respect of: **Pulser (component of a dispenser**

Type: **ME 14-02**

Manufacturer: **ELTOMATIC A/S**
Denmark

Characteristics: **Ambient temperature range [°C]: -25 / 55**
Environmental classes: E2, M1, H3

Document number: **0511-ZR-A004-17**

Description: **Measurement transducer is described in the descriptive annex. This certificate contains 3 pages.**

Brno, 2 March 2017



RNDr. Pavel Klenovský
Director General

Descriptive annex**1. Device description**

ME 14-02 pulser can be used as a component of dynamic measuring systems for liquids other than water, especially dispensers. The devices meet all requirements of the International recommendations OIML R117-1.

ME 14-02 pulser is intended for conversion of the rotating movement of the measuring sensor magnet to the pulse signal. Pulse signal is in the form of squarewave 50% duty cycle $\pm 10\%$. The pulser is to be mounted directly on the measuring sensor. Transfer of the rotating movement is done by a magnet.

If the pulser shaft begins to rotate backwards (CW), the software will suppress and increment the first 32 backward pulses to an internal register and then it will begin to emit backward pulses.

When normal rotation (CCW) resumes, the software will decrement those first 32 pulses again before it recommences normal CCW pulse emission.

If there were less than 32 backward pulses the software will decrement only that number of pulses before it recommences normal CCW pulse emission. No reset is required.

2. Basic technical and metrological data

Type designation	ME 14-02
Power supply	5-15 VDC
Ambient temperature range [°C]	-25 / 55
Environmental classes	E2, M1, H3
Pulse form	squarewave 50% duty cycle $\pm 10\%$
Output signal	Two channels quadrature

3. Test

Examinations and technical tests of the ME 14-02 pulser have been performed in conformity with International Recommendation OIML R 117-1 *Dynamic measuring systems for liquids other than water* and according to International recommendation OIML R117-2 Edition 2014 *Part 2: Metrological controls and performance tests*.

Examination and tests are described in the Evaluation report No. 6015-PT-P3006-16, issued by CMI, notified body No. 1383.

4. The device data

At least the following data are stated on the device (type plate):

- Number of the approval certificate (Parts certificate),
- Manufacturer's name, mark or trademark,
- Type designation,
- Serial number,
- Pulses / revolution.

5. Conditions for approval and sealing

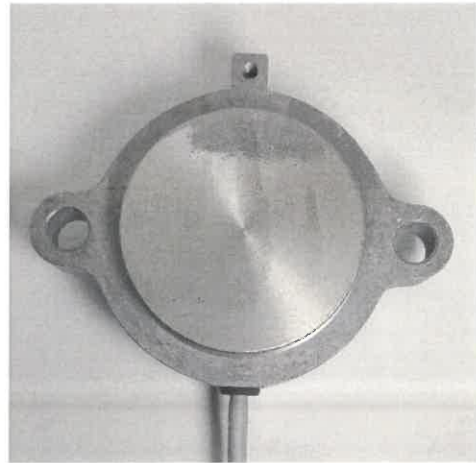
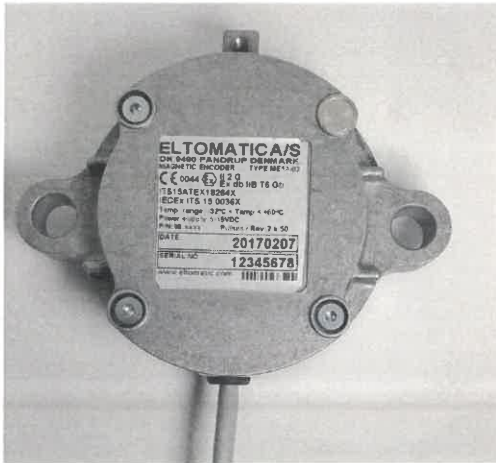
The pulser has to be designed in accordance to this Parts certificate.
Complete measuring system has to be covered by EU-type examination certificate.

Seals:

- Cover of the pulser – according to picture No. 2
- Type plate



Picture No. 1: Construction of the ME 14-02 pulser



Picture No. 2: Sealing of the ME 14-02 pulser

