



Český metrologický institut

# Parts Certificate

Number: ZR 141/17 - 0158

Revision 1

**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 R117:2019

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

**In respect of:** Pulser  
(component of measuring systems for liquids other than water)

**Type:** 01-09

**Manufacturer:** ELTOMATIC A/S  
Denmark

<b>Characteristics:</b>	Accuracy class	0.5
	Ambient temperature range	-25 °C to 55 °C

**Document number:** 0511-ZR-A018-17

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

Brno, 3 October 2025



RNDr. Pavel Klenovský  
Head of the Certification Body

Descriptive annex**1 Device description**

01-09 pulser can be used as a component of measuring systems for liquids other than water, especially dispensers. The devices meet all requirements of the International recommendations OIML R117-1.

01-09 pulser is intended for conversion of the rotating movement of the meter sensor shaft to the pulse signal. Pulse signal is in the form of square wave 50% duty cycle  $\pm 10\%$  with either 1, 2 or 3 output channels. The pulser is intended to be mounted directly on the meter sensor.

The pulser can be connected to any calculating / indicating device that is capable to process output signal of this device.

**2 Basic technical and metrological data**

Type designation	01-09
Accuracy class	0.5
Power supply	5-24 VDC
Ambient temperature range [°C]	-25 / 55
Environmental classes	E2, M3, H3
Max rotation speed	1000 rpm
Output stage	NPN, PNP, TOT
Pulses per revolution	Up to 400 pulses / rev.
Pulse form	Square wave 50% duty cycle $\pm 10\%$ or Fixed pulse length

**3 Test**

Examinations and technical tests of the 01-09 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 2019 *Part 2: Metrological controls and performance tests*.

Examination and tests:

- Evaluation report No. 6015-PT-P3034-17,
- EMC Test report No. 8551-PT-E0119-17,
- Evaluation report No. 0511-ER-WM004-25.

**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.

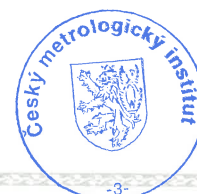
**5 Conditions for approval and sealing**

The pulser has to be designed in accordance to this Parts certificate.

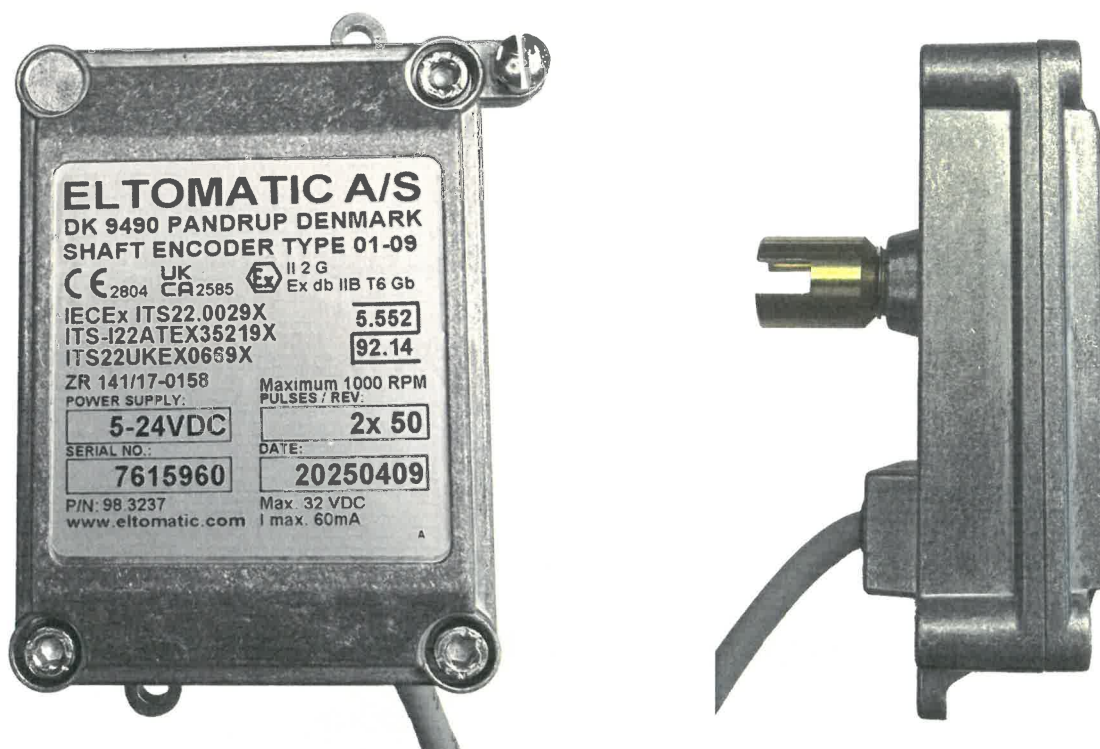
Complete measuring system has to be covered by EU-type examination certificate.

Seals:

- Cover of the pulser by one sealed screw – according to picture No. 2
- Type plate



Picture No. 1: Construction of the 01-09 pulser



Picture No. 2: Sealing of the 01-09 pulser

