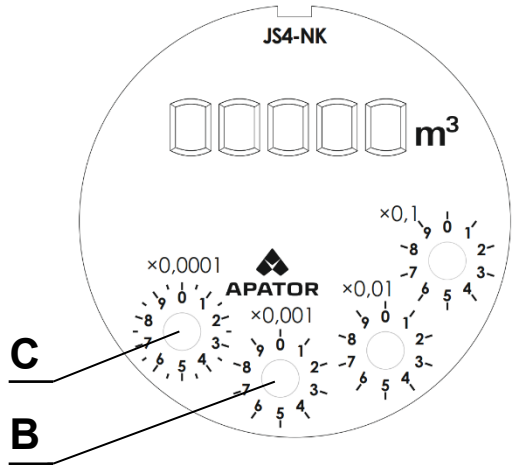
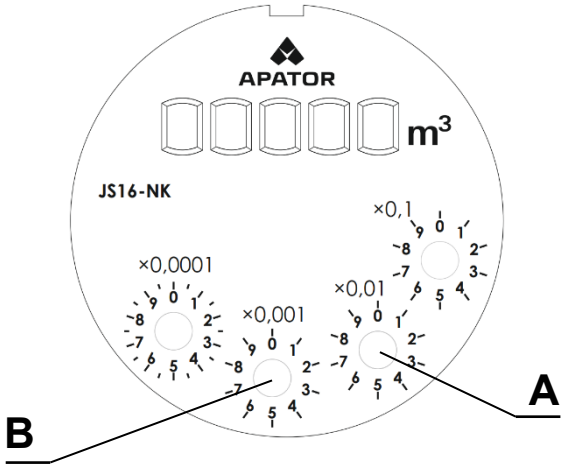
Installation Manual

For water meters and flow sensors type JS DN15-40 with reed switch transmitter NK/NC

APATOR POWOGAZ

Table 1. Positioning of single-magnet fixtures at specific indicators of the water meter or flow sensor counter front plate and the possible NK/NC transmitter pulse rates.

<table>
<tr><td colspan="2">Example devices:</td></tr>
<tr><td>JS4-NK (DN20)</td><td>JS16-NK Master+ (DN40)</td></tr>
<tr><td> 
</td><td> 
</td></tr>
<tr><td colspan="2">A. At the indicator position x0,01: Single-magnet fixture, pulse rate → 100 l/pulse
B. At the indicator position x0,001: Single-magnet fixture, pulse rate → 10 l/pulse
C. At the indicator position x0,0001: Single-magnet fixture, pulse rate → 1 l/pulse</td></tr>
</table>

This step-by-step procedure for the installation of the NK transmitter is shown below with the **JS4-NK (10 l/pulse)** and **JS16-NK (100 l/pulse)**, without a transmitter:

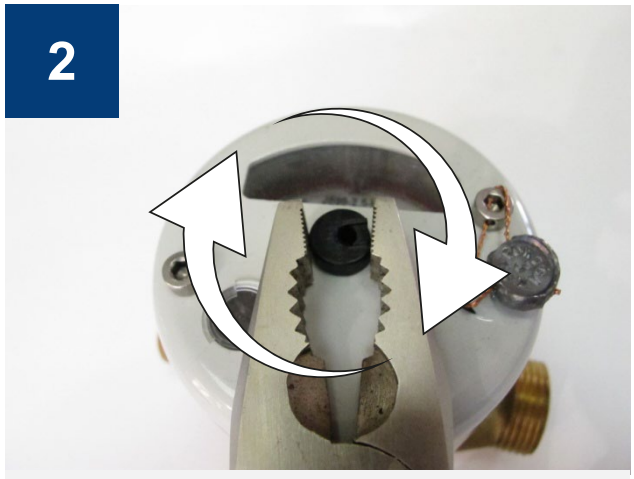
1a

Water meter JS4-NK. IP65 counter is equipped with a single-magnet fixture, mounted in the indicator position (x0,001) → pulse rate 10 l/pulse.

1b

Water meter **JS16-NK**. IP65 counter is equipped with a single-magnet fixture, mounted in the indicator position (x0,01) → pulse rate 100 l/pulse.

2



Use a pair of pincers to grasp the latched cable gland and rotate it 90° counter-clockwise (or clockwise).

3

Remove the cable gland fully from the cable entry slot.

4

Cut the wire and remove the lead tamper seal with the Powogaz mark “KJ3” (removing the manufacturer's seal does not affect the legalization and warranty of the device).

5

Remove the Allen bolts which secure the counter mechanism's magnetic shielding. Remove the counter mechanism's magnetic shielding; note that the bolt at the boss (shown to the right) has the cap head designed to.

View of the counter guard with the counter mechanism’s magnetic shielding removed.

6

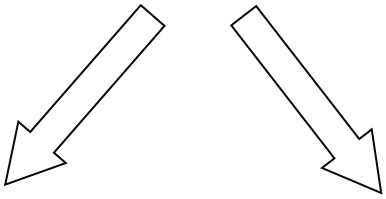
JS4-NK

7

JS16-NK

8

For installation, use the NK/NC transmitter assembly, no. 31-9051-020000, width = 4 mm, for water meters (T50, T90 and T130) and flow sensors (T90 and T130) in IP65 version.



JS4-NK

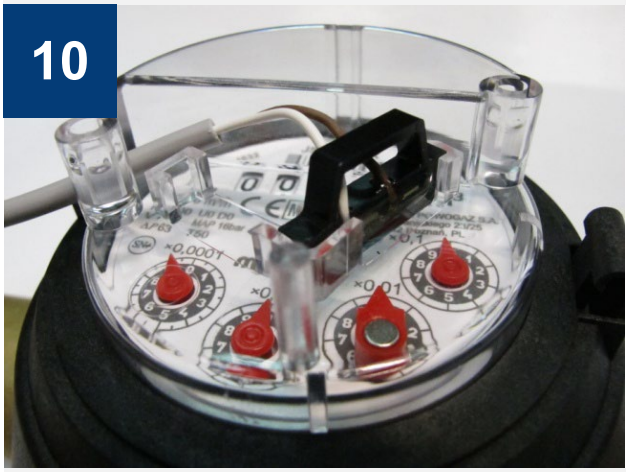
9

Installing the NK transmitter

Place the NK transmitter in the installation slot next to the magnet fixture in the counter guard. The resin-encapsulated electronic circuitry of the NK transmitter shall be aligned toward the magnet fixture. Shown in the image is the single-magnet fixture installed at the (x0,001) indicator to enable a pulse rate of → 10 l/pulse.

JS16-NK

10



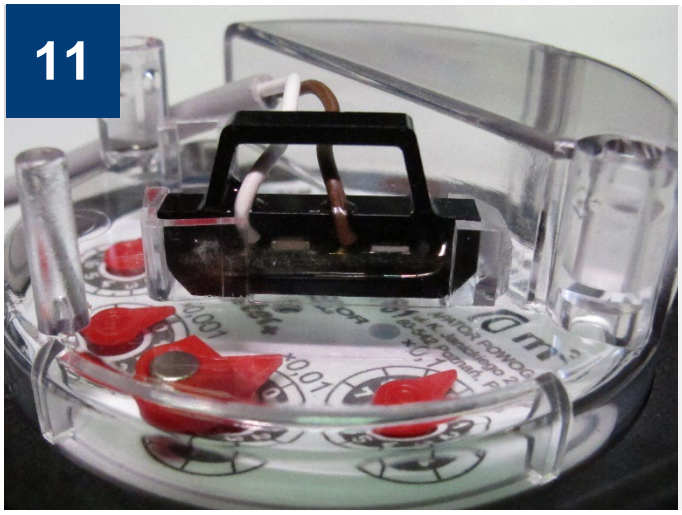
Installing the NK transmitter

Place the NK transmitter in the installation slot next to the magnet fixture in the counter guard. The resin-encapsulated electronic circuitry of the NK transmitter shall be aligned toward the magnet fixture. Shown in the image is the single-magnet fixture installed at the (x0,01) indicator to enable a pulse rate of → 100 l/pulse.

NK transmitter parameters:

- $U_s \leq 24$ VDC
- I_s < 5÷15 mA (max. 50 mA)
- Wire: YTLY 2x0,14 mm^2
- L = 2 m

11

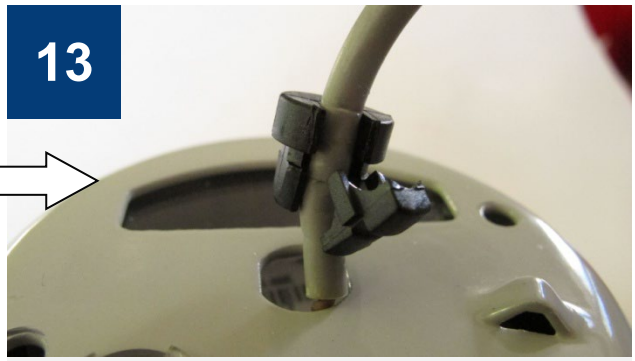


Complete the NK transmitter installation by engaging the NK transmitter into the guide piece to stop. The top of the NK transmitter should now be level with the top of the guide piece.

12

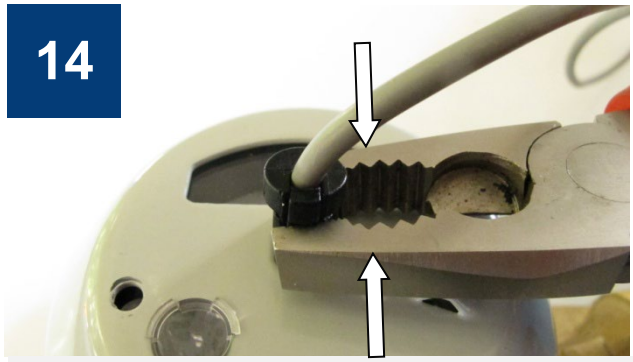
Put the counter mechanism's magnetic shielding on the counter guard. Pass the NK transmitter cable through the cable entry slot in the counter mechanism's magnetic shielding.

13



Use your fingers or a pair of pliers to slide the latched cable gland on the cable at 40-50 mm from the NK transmitter.

14

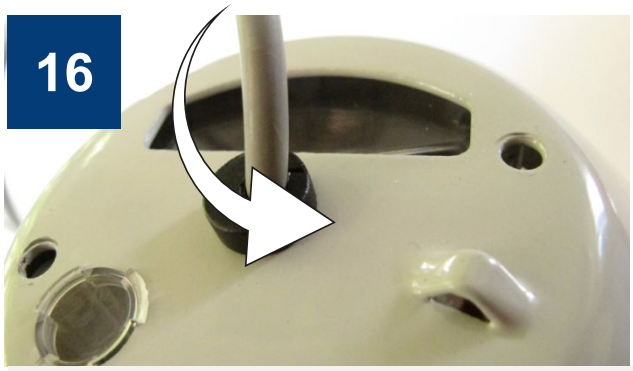


Rotate the counter mechanism’s magnetic shielding installed on the water meter to the operating position (in which the drums are seen through the manual reading sight hole). Use a pair of pliers to clamp and latch the cable gland on the NK transmitter cable.

15

Align the side chamfer on the latched cable gland with the cable entry slot in the counter mechanism’s magnetic shielding. Press the latched cable gland into the slot to stop.

16



Rotate the latched cable gland in the slot by 90° (clockwise or anti-clockwise) to the position shown in the image. In this position, the cable will be retained in the counter mechanism’s magnetic shielding.

17

Secure the counter mechanism's magnetic shielding with the Allen bolts. Install the Allen cap bolt for the lead tamper seal wire in the hole next to the boss in the counter guard to facilitate sealing of the water meter against the removal of the counter mechanism’s magnetic shielding.

This concludes the installation of the NK transmitter.

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2025.016.I.EN.