

# Assembly instructions pulse module for water meters with modularis counting mechanism



## Technical information

Counting accuracy	<input type="checkbox"/> 1	<input type="checkbox"/> 10	<input type="checkbox"/> 100	<input type="checkbox"/> 1000	<input type="checkbox"/> liters/pulse
Pulse output	S0 according to DIN 43864 and DIN VDE 0418				
Power supply	Intern				
Service life	More than 12 years				
Test signs	CE				
Protection class	<input type="checkbox"/>	IP 54	<input type="checkbox"/>	IP 65	<input checked="" type="checkbox"/> IP 68
EMC	EN 61000-6-1, EN 61000-6-3				
Working temperature	from 0 °C up to +70 °C				
Storage temperature	From - 25 °C up to +70 °C				

## List of contents

### Standard

- Pulse module, ready for operation
- Countersunk screw 2.2x13mm
- Self-adhesive protection mark
- Assembly instructions

Subject to errors and alterations.

## Assembly of the pulse module



1. Remove the dummy lid with a small screwdriver.



2. Clean the area above the modulation disk.

3. Place the module onto the water meter. Check the correct fitting of the module (flat transition to the convex surface of the transparent meter hood).

**Caution:** Incorrect installation of the module can lead to malfunctions!



4. Fix the module with the enclosed securing screw.  
(Countersunk screw 2.2 x 13 mm)

5. For protection against inadmissible interventions, attach the enclosed self-adhesive protection mark above the fastening screw.

6. Check the pulse signal with the pulse tester (optional). To do this, connect the tester to the pulse cable. When the pulse pointer moves below the optics of the pulse module, the LED of the tester flashes red.

**Attention:** Our optical modules are able to adapt to changing conditions. This process also occurs when the module is set up on the counter. For teaching, normally 2-5 liters (under unfavorable conditions up to 20 liters) must flow through the meter. We recommend synchronizing the readout technology with the counting unit after 2-3 regular pulses.

7. Connecting the module:

The output of the module corresponds to the S0 standard (reed-compatible,  $U$  (max) = 30V DC,  $I$  (max) = 30mA, pulse length = 50ms)

Please note the polarity of the connections:

White = S0 +

Brown = S0 -

Maximum voltage: 30 V

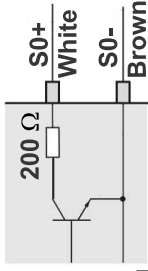
Maximum current: 30 mA

Pulse length: 50 ms

Space between pulses: >50 ms

R(H): 200 Ohm

R(L): >10 MOHM



**We**

Neumann & Co. Wasserzähler Glaubitz GmbH  
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Deutschland

Declare that the product:

Pulse module for Modularis counters

**Meets the requirements of the following EC Directive:  
EC EMC Directive as amended by Directive 2004/108 / EC  
Applied harmonized standards, in particular:  
EN 61000-6-1 EN 61000-6-3**

The product has been manufactured, end-tested and tested under a quality assurance system.

**Certified according to ISO 9001:2008**

Glaubitz, Nov. 2016

Neumann & Co. Wasserzähler Glaubitz GmbH  
business management

# Commissioning protocol

Name / Apartment	
Street	
ZIP / City	
installation location	
installation date	
meter number	
meter reading	_____ m <sup>3</sup>
billing date	
meter size	Qn: _____ m <sup>3</sup> /h
Pulse value	Liter pro pulse

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Installation date

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Name