

## Pulse Adapter (Radio)

**AEW22.2**

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**The pulse adapter acquires and handles the pulses received from one or two consumption meters and transmits the data to the central radio readout unit.**

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### Use

The pulse adapter is a component of the Radio Metering System. It is used where consumption meters with pulse output are installed, whose data are to be transmitted to the central radio readout unit OZW20. Such meters may be meters for hot or cold water, gas, electricity, etc. For the field of use of the Radio Metering System, please refer to data sheet N2860E.

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### Functions

- Acquisition of pulses delivered by the connected consumption meters
  - Monitoring of pulse line with Namur circuit
  - Handling of pulses and storage of consumption data
  - Storage of consumption data on the set day
  - Random transmission of data via radio six times per day
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### Ordering

When ordering, please give type reference **AEW22.2**.

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### Equipment combinations

The pulse adapter is a component of the Radio Metering System and is designed for exclusive use with that system. A maximum of two consumption meters with pulse output can be connected to one pulse adapter. The pulse outputs may be of different type (medium, pulse specification).

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### Technical design

#### Pulses

The AEW22.2 handles the pulses received from the following Landis & Staefa devices:

- Water meters WFU... and WMU...
  - with Reed contact
  - with Reed contact and Namur circuit
- Heat meters SONOGRYR WSD... with pulse module WZD-P3

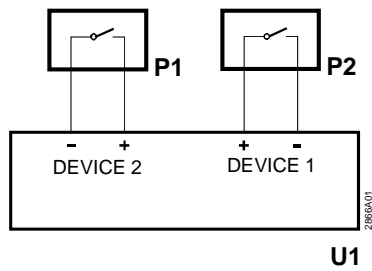
Other meters can be supplied on request.

<b>Data handling</b>	<p>Of each connected consumption meter the pulse adapter stores:</p> <ul style="list-style-type: none"> <li>• The current meter reading</li> <li>• The meter reading on the set day</li> </ul>
<b>Data transmission</b>	<p>Random data transmission takes place six times per day.</p>
<b>Power supply</b>	<p>The pulse adapter is powered by a lithium battery with a long service life.</p>
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<b>Mechanical design</b>	<p>The AEW22.2 is comprised of base, cover and wall holder made of plastic. Base and wall holder are interconnected by means of a protective foil. The base contains the printed circuit board with the microprocessor and the lithium battery (DC 3 V). The printed circuit board also carries the connector for the direct connection of the service unit. The wall holder is used as a mounting base and is secured to the wall by means of two screws. The cover is engaged at the top of the base, swung downward and sealed. The cables of the two meters are introduced through holes at the bottom of the cable holder. The two terminal blocks for connecting the meters can be accessed from the rear of the cable holder.</p>
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<b>Engineering notes</b>	<p>The local standards and regulations for operating radio equipment and for electrical installations must be complied with. The type of building construction may have an impact on the range of transmission.</p> <p>Detailed information on engineering is given in the Planning Manual, reference no. J2861E.</p>
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<b>Mounting notes</b>	<p>The connections of each device or meter input (two-wire connection) are interchangeable.</p> <p>When connecting non-potential-free outputs, the polarity indicated on the label must be observed.</p> <p>The pulse adapter may not be installed in metal casings.</p>
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<b>Commissioning notes</b>	<p>The parameters of the entire radio equipment are set by Landis &amp; Staefa service staff. Using the service unit, the following data are entered into the pulse adapter:</p> <ul style="list-style-type: none"> <li>• Type of pulse source (Reed, Reed with Namur, Open Collector, etc.) per input</li> <li>• Kind of medium (gas, water, etc.) per input</li> <li>• Physical variable (kWh, m<sup>3</sup>, etc.) per input</li> <li>• Pulse valency per input</li> <li>• Set day (one set day per year) per input</li> <li>• Reading of meters when commissioning the pulse adapter, per input</li> <li>• Meter number per input</li> <li>• Identification of pulse adapter</li> </ul> <p>If the data of the pulse meters are known, the pulse adapter can be programmed with ready data records. In that case, only the meter number and the meter reading need to be entered.</p> <p>After closing the casing, the pulse adapter sends several commissioning telegrams to the central radio readout unit.</p>

## Technical data

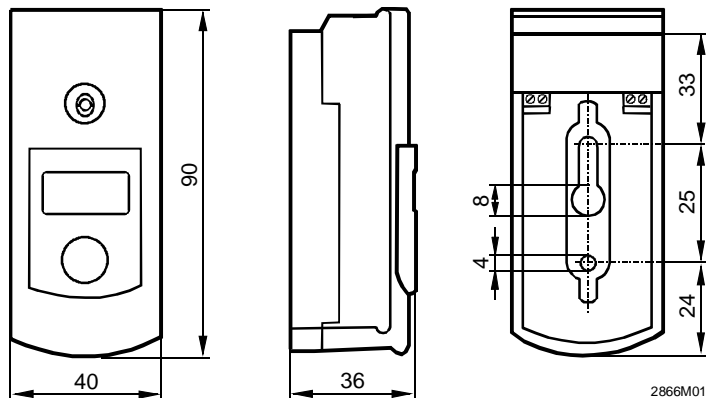
CE conformity to EMC directive	89/336/EEC
Degree of protection	IP 42 to EN 60529
Safety class	III to EN 60950
Electromagnetic compatibility	Draft prETS 300683 (Nov. 1995)
Certification to	BAPT222 ZV125 and I-ETS 300 220
Certification no.	G131700J CEPT LPD-D
Operating voltage	DC 3 V
Life of lithium battery	
1 meter	10 years min.
2 meters	5 years min.
Nominal frequency	433.92 MHz
Transmitter power	< 1 mW
Rate of transmission	6 times / 24 hours
Perm. ambient temperature	
Transport and storage	-25...+60 °C
Operation	0...55 °C
Weight	0.3 kg

## Connection diagram



- P1 Any meter with a pulse contact (e.g. for cold water)  
P2 Any meter with a pulse contact (e.g. for hot water)  
U1 Pulse adapter AEW22.2

## Dimensions



Dimensions in mm

