


# HRI

High-resolution pulse generator

## Your benefits

- Load-free inductive scanning of the meter's pointer:
  **No influence on measuring behaviour**
- Can be retrofitted without damaging the calibration seal:
  **Easy and fast on-site installation**
- Electronic pulse generator:
  **No pulse bouncing**

## Applications

- Pulse recording for Meistream series bulk water meters with CE Conformity (MID) and GWFcoder® register
- Industrial control applications with the FM-1D/K or FM-2D/K
- Control and regulation functions using control system or PLC

## Properties

- Robust design
- Register is prepared for HRI recording
- Self-diagnostics
- Battery service life longer than 10 years
- Hermetically sealed body (IP68)
- Flow direction detection
- Cable length 5 m

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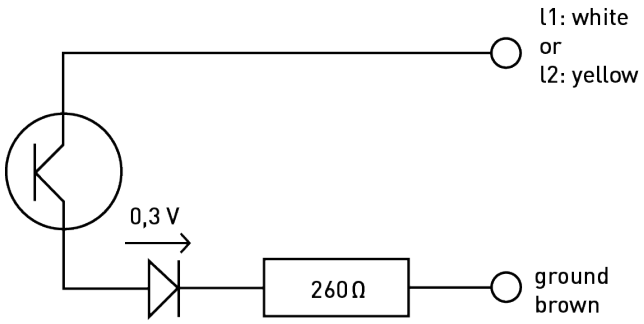
## Pulse output mode

The HRI supports 2 different pulse output modes via 2 cables

| | | |
|---|---|---|
| **Mode B4**<br>(Standard) | Used only for pulse collectors with uses one pulse input | I1: Balanced pulses[1]<br>I2: Error status[2] |
| **Mode B2** | | I1: Forward pulses<br>I2: Backward pulses |

1] Backward pulses are balanced by suppressing an identical number of forward pulses.
2] The output I2 is normally closed. The status signal changes if an internal error (processor) is detected in the HRI.

## Circuit diagram




## Pulse output

| | |
|---|---|
| Pulse value output | 100, 1000 or 10000 litre /pulse |
| Pulse width | 124 ms |
| Max. output frequency | 5 Hz |
| $U_{max}$ | 24 V DC |
| $U_{min}$ | 3 V DC |
| $I_{max}$ | 0,02 A |
| $P_{max}$ | 0,48 W |
| Storage backward pulses | 1'000'000 |

## Pulse value output

| Meter sizes | DN 40...125<br>1 Pulse = ...Liter | DN 150...300<br>1 Pulse = ...Liter |
|---|---|---|
| Meistream and Meistream Plus | 100<br>1000 | 1000<br>10000 |

## Temperature range

| | |
|---|---|
| Storage | -20 to + 65 °C |
| Operation | -10 to + 65 °C |


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