



Cold
water

GWF



HRI

High-resolution impulse generator for Meistream and Meistream Plus with GWFcoder® register

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

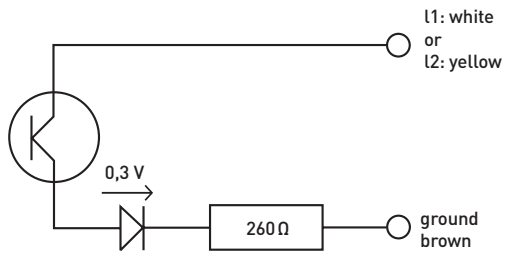
Features

- Robust design
- Register is prepared for HRI recording
- Self-diagnostics
- Battery service life longer than 10 years
- Hermetically sealed body (IP 68)
- Flow direction detection
- Cable length 5 m

Application

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

Circuit diagram



Pulse output mode

The HRI supports 2 different pulse output modes via 2 cables

Mode B4 (Standard)	Used only for pulse collectors with uses one pulse input	l1: Balanced pulses ¹⁾ l2: Error status ²⁾
Mode B2		l1: Forward pulses l2: Backward pulses

¹⁾ Backward pulses are balanced by suppressing an identical number of forward pulses.

²⁾ The output l2 is normally closed. The status signal changes if an internal error (processor) is detected in the HRI.

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 1 Pulse = ... Liter	DN 150...300 1 Pulse = ... Liter
Meistream and Meistream Plus	100 1000	1000 10000

Temperature range

Storage	-20 ... +65 °C
Operation	-10 ... +65 °C