



Main Characteristics

- Pulse capture device for Cordonel flow meters.
- Can be factory fitted or retrofitted in the installation site without breaking the meter's seal.
- Provides a high-resolution pulse output with water flow direction detection.
- Communication between meter and pulse adapter CPA01 via IrDA interface.
- Compatible with all versions of Cordonel meters.
- Meter and pulse adapter are galvanically isolated.
- No switch bouncing due to electronic pulses.
- Pulse value, mode and length programmable over the air.
- Typical battery life 10 years.
- Sealed housing (IP68).
- 3m cable length.

Applications

Generate volume proportional pulses from a Cordonel flow meter for:

- Connection to a building management system
- Industrial control applications with the FM-1 D/K or FM-2D/K
- Data Logging in combination with various Data loggers
- A cellular gateway with pulse input for logging and transmission of flow profiles.
- Installation in harsh environments like flooded pits thanks to its robust design

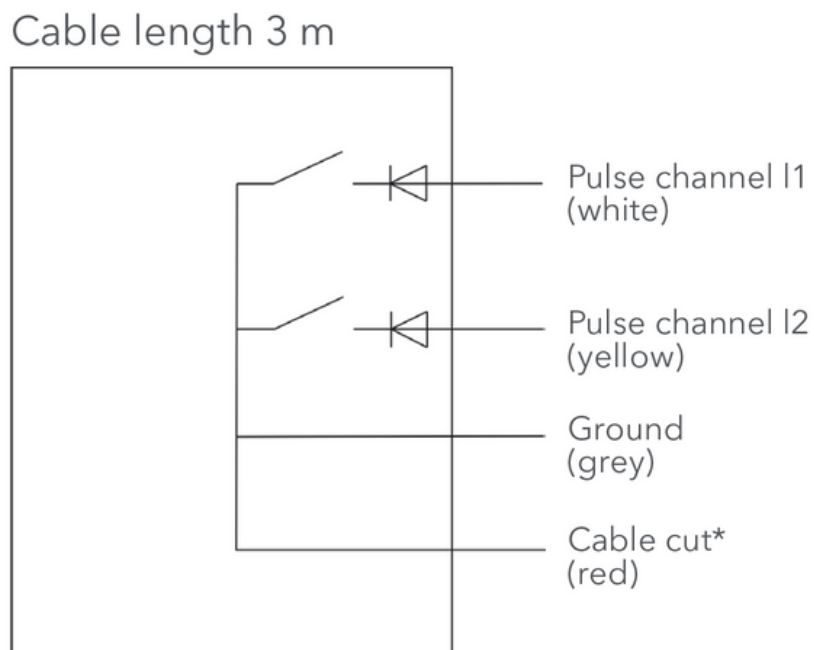
Pulse Output

- According to selected pulse mode: programmable pulse weights 0.01*, 0.1*, 1, 10, 100, 1000 litres/pulse
- Pulse lengths: 1.5*, 5, 10, 20, 50, 200 or 500 ms
- Max. voltage: 48V DC
- Max. current: 0.2A
- Max. switching capacity: 1.1 W
- Max. pulse frequency:
 - 100 Hz in working mode;
 - 300 Hz in test mode
- Battery life: 10 years with pulse frequency <20Hz

Temperature Range

- For medium temperature up to 70 °C
- Environmental temperature range: -10°C....+60°C (short-term 70°C)

Technical Data



*Connect to positive input channel, in case of cable cut the signal closes to zero.

Pulse Modes

- Mode A2
 - I1: Forward pulses
 - I2: Backward pulses
- Mode A3¹
 - I1: For-/Backward pulses
 - I2: Signal for the flow direction²
- Mode A4(default)
 - I1: Balanced pulses³
 - I2: ----

(¹) In test mode only mode A3 is available

(²) Ground level means reverse flow

(³) Backward pulses are compensated by suppressing the same quantity of forward pulses.

Dimensions and Weight

Maximum Flow Rate [m ³ /h]	Pulse value [Litre]					
	0.01*	0.1*	1	10	100	1000
	max. pulse length[ms]					
1	10	100	500	500	500	500
2.8	5	50	500	500	500	500
5	1.5	20	200	500	500	500
10	---	10	100	500	500	500
15	---	10	100	500	500	500
20	---	5	50	500	500	500
25	---	5	50	500	500	500
30	---	5	50	500	500	500
40	---	1.5	20	200	500	500
50	---	1.5	20	200	500	500
60	---	1.5	20	200	500	500
70	---	1.5	20	200	500	500
80	---	1.5	20	200	500	500
90	---	1.5	10	100	500	500
100	---	1.5	10	100	500	500
125	---	---	10	100	500	500

Dimensions and Weight

Maximum Flow Rate [m ³ /h]	Pulse value [Litre]					
	0.01*	0.1*	1	10	100	1000
	max. pulse length[ms]					
150	---	---	10	100	500	500
175	---	---	10	10	500	500
200	---	---	5	50	500	500
250	---	---	5	50	500	500
300	---	---	5	50	500	500
400	---	---	1.5	20	200	500
500	---	---	1.5	20	200	500
600	---	---	1.5	20	200	500
700	---	---	1.5	20	200	500
800	---	---	1.5	20	200	500
900	---	---	1.5	10	100	500
1000	---	---	1.5	10	100	500
1250	---	---	---	10	100	500
1500	---	---	---	10	100	500
1750	---	---	---	10	100	500
2000	---	---	---	5	50	500